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Smithsonian Year 1985 Supplement

Chronology and Appendixes

Smithsonian Institution Press
Washington, D.C.

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Contents

Chronology	5
Appendix 1. Members of the Smithsonian Council, Boards, and Commissions, September 30, 1985	33
Appendix 2. Smithsonian Special Foreign Currency Program Awards Made October 1, 1984, through September 30, 1985	47
Appendix 3. National Museum Act Grants Awarded in Fiscal Year 1985	51
Appendix 4. Academic, Research Training, and Internship Appointments in Fiscal Year 1985	53
Appendix 5. Publications of the Smithsonian Institution Press in Fiscal Year 1985	94
Appendix 6. Publications of the Staff of the Smithsonian Institution and Its Subsidiaries in Fiscal Year 1985	106
Appendix 7. The Smithsonian Institution and Its Subsidiaries, September 30, 1985	228
Appendix 8. Donors to the Smithsonian Institution in Fiscal Year 1985	279
Appendix 9. Benefactors of the Smithsonian Institution in Fiscal Year 1985	401
Appendix 10. Visitors to Smithsonian Institution Museums in Fiscal Year 1985	424

Note The arrangement of bureau listings within the individual appendixes is not alphabetical but rather follows the organization of the Smithsonian Institution as shown on the next page.

The pages of this *Supplement* were photomechanically reproduced from typescript provided by the individual bureaus and offices.

The Smithsonian Institution

Establishment, Board of Regents, Executive Committee, and the Secretary

- Office of the Secretary
- Office of the Under Secretary
- Office of Audits and Investigations
- Office of the General Counsel

Science

- National Air and Space Museum
- National Museum of Natural History
- National Zoological Park
- Office of Fellowships and Grants
- Smithsonian Astrophysical Observatory
- Smithsonian Environmental Research Center
- Smithsonian Office of Educational Research
- Smithsonian Tropical Research Institute

History and Art

- Anacostia Neighborhood Museum
- Archives of American Art
- Center for Asian Art: Freer Gallery of Art and
Arthur M. Sackler Gallery
- Cooper-Hewitt Museum
- Hirshhorn Museum and Sculpture Garden
- Joseph Henry Papers
- National Museum of African Art
- National Museum of American Art
- National Museum of American History
- National Portrait Gallery
- Office of American Studies

Museum Programs

- Conservation Analytical Laboratory
- National Museum Act Programs
- Office of Exhibits Central
- Office of Horticulture

Office of Museum Programs

Office of the Registrar

- Smithsonian Institution Archives

- Smithsonian Institution Libraries

- Smithsonian Institution Traveling Exhibition Service

Public Service

- Office of Elementary and Secondary Education

- Office of Folklife Programs

- Office of Public Affairs

- Office of Smithsonian Symposia and Seminars

- Office of Telecommunications

- Smithsonian Institution Press

- Smithsonian* Magazine

- Visitor Information and Associates' Reception Center

Administration

- Administrative and Support Activities

- Financial Management Activities

- Smithsonian Institution Women's Council

- Smithsonian Internship Council

Directorate of International Activities

Membership and Development

- Office of Development

- National Board of the Smithsonian Associates

- Women's Committee of the Smithsonian Associates

- James Smithson Society

- Smithsonian National Associate Program

- Smithsonian Resident Associate Program

Under Separate Boards of Trustees

- Reading Is Fundamental, Inc.

- Woodrow Wilson International Center for Scholars

- John F. Kennedy Center for the Performing Arts

- National Gallery of Art

Smithsonian Year - 1985

CHRONOLOGY

The following is a representative selection of Smithsonian events during the fiscal year. No attempt has been made to make this a complete compilation of the Institution's activities.

October

Awards: The American Association of Zoological Parks and Aquariums (AAZPA) presented the Marlin Perkins Award of Excellence to former National Zoo Director Theodore H. Reed. AAZPA Significant Achievement Awards were also presented to the National Zoo for the new *Monkey Island* exhibit and a new public affairs program, "Symposia for the Public."

October

New Service: Information Desk services provided through the Visitor Information and Associates' Reception Center began at the National Museum of American Art and the National Portrait Gallery.

October

Publication: The first issue of *Journeys*, a magazine for junior-high-school-aged children based on Smithsonian programs and resources, was printed and distributed on a test basis to selected teachers around the nation. The pilot project was funded by the Educational Outreach Fund and carried out by the Office of Elementary and Secondary Education, assisted by the Office of Public Affairs.

October

Publication: The Smithsonian Collection of Recordings released a seven-record set entitled "American Popular Song: Six Decades of Songwriters and Singers."

October

Seminar: Dr. Richard Mitchell, author, professor of English at Glassboro State College and editor of *The Underground Grammarian*, gave a seminar at the Smithsonian Office of Educational Research on "Alternatives to the Traditional Education System."

October

Television: "Smithsonian World," the series of prime-time, one-hour specials co-produced by the Smithsonian and WETA-TV, aired five new programs between October and May; reruns of seven earlier shows were also aired during July and August. Among many of the most prestigious industry honors received by the show was an Emmy awarded in August.

October

Workshop: The Office of Museum Programs, in cooperation with the Virginia Association of Museums, began a series of four on-site workshops at locations across Virginia.

October 1

Organization: The Directorate of International Activities was established and John E. Reinhardt, formerly Assistant Secretary of History and Art, was named as director, with responsibility for the Office of Service and Protocol (formerly the Office of International Activities), the Office of Publications Exchange (formerly the International Exchange Service) and the International Center, a component of the Center for African, Near Eastern and Asian Cultures.

October 4

Milestone: The Hirshhorn Museum and Sculpture Garden celebrated the tenth anniversary of its opening.

October 5

Exhibition: *Werner Drewes, Sixty-five Years of Printmaking*, opened at the Museum of American Art with 110 works drawn from the museum's extensive holdings. In a subsequent public program, Drewes discussed his life and work with noted critic and designer Wolf von Eckardt.

October 6-8

Exhibition: The Office of Horticulture displayed prime specimens of the orchid collection at the National Capital Orchid Society Show.

October 9

Exhibition: *European Roots of American Pharmacy*, an exhibition of instruments, paintings, drug containers and other objects showing the influence of the tools and practices of the European apothecary on the American pharmacy, opened in the Dibner Gallery at the National Museum of American History.

October 12-13

Symposium: Eight distinguished scientists examined the diversity of animal mating systems in the National Zoo's public symposium entitled "The Mating Game: Exploring the Mysteries of Animal Reproduction."

October 19

Exhibition: *Baseball Immortals, 1905-35: The Photographs of Charles Martin Conlon* opened at the National Portrait Gallery, an exhibit jointly organized with The Sporting News.

October 19

Special Event: Archaeologist Mary Leakey lectured for the Resident Associate Program on discoveries of fossil human ancestors in East Africa; the event was cosponsored by the National Museum of Natural History.

October 20

Concert series: The 20th-Century Consort opened its 1984-85 season at the Hirshhorn Museum and Sculpture Garden with the first of four concerts, entitled "Election Special."

October 20

Symposium: "Can't Something Be Done?," a program co-sponsored by the Museum of American History, focused on Eleanor Roosevelt's activities in Washington, D.C., during the New Deal and featured discussions among scholars of the New Deal era and individuals who had helped to fashion the New Deal policies.

October 21

Exhibition: The Anacostia Museum opened *Black Women: Achievements Against the Odds*, an exhibition providing an overview of black women's history from the colonial period to the modern era. The exhibition was produced by the Smithsonian Institution Traveling Exhibition Service.

October 21

Special Program: The Office of Museum Programs and the United States Information Agency co-sponsored the second annual museum administration project, enabling seven museum professionals from six European countries to study current practices and problems of museum administration at the Smithsonian and other museums in the United States.

October 24-26

Colloquium: The Kellogg Project's "Colloquium II" was held at the Xerox International Training Center, Leesburg, Va. The theme, "Museums in Pursuit of Educational Excellence," was addressed by six speakers.

October 29

New System: The Smithsonian Institution Libraries introduced its new Automated Library System to representatives of Institution units.

October 31

Exhibition: *Praise Poems: The Katherine White Collection* opened at the National Museum of African Art.

November

Gift: The Earl Silas Tupper Foundation pledged \$4 million to the Smithsonian Tropical Research Institute for the construction of the Earl S. Tupper Research and Conference Center in Panama.

November

New Facility: The Smithsonian Institution Libraries announced the opening of a new branch library in the Office of Horticulture. The library, currently located in the Arts and Industries building, is the fifteenth branch library in the system.

November 1

Premiere: "Comet Quest," a multi-media presentation that explores comets through the ages, opened at the National Air and Space Museum's Albert Einstein Planetarium.

November 1

Workshop: A regional workshop, sponsored by the Office of Elementary and Secondary Education, was held in Oakland, Calif., bringing more than 310 teachers to work with local museum educators. Additional workshops were held in Charleston, S.C. (November 8), and in Oak Ridge, Tenn. (March 23).

November 5

Exhibition: *Marine Mammals of the World*, an exhibit of the Smithsonian Institution Traveling Exhibition Service, opened at the National Bank of Panama Museum under the sponsorship of the Smithsonian Tropical Research Institute and the Directorate of Marine Resources of the Government of Panama. All exhibit materials were translated into Spanish.

November 10

Workshop: Carolyn Landon, artist, conducted an adult workshop, "African Sculpture Through the Artist's Eyes," in the galleries of the Museum of African Art.

November 13-14

Visit: Their Royal Highnesses the Grand Duke and Grand Duchess of Luxembourg visited the Freer Gallery of Art and the galleries, plaza and garden of the Hirshhorn Museum and Sculpture Garden.

November 13

Seminar: Prof. Andrew S. Skinner, Adam Smith professor of political economy at the University of Glasgow, led a discussion on Adam Smith and public policy, part of a continuing series examining the intellectual roots of the U.S. Constitution and Bill of Rights.

November 13

Special Event: Avant-garde performer Meredith Monk appeared at the Hirshhorn Museum and Sculpture Garden in a program co-sponsored by the Resident Associate Program and the Hirshhorn as part of the Hirshhorn's tenth anniversary celebration.

November 14

Exhibition: *Miguel Covarrubias Caricatures*, the first retrospective of this artist's caricatures, opened at the National Portrait Gallery.

November 14

Exhibition: *The Metropolitan Opera Centennial: A Photographic Album* opened at the National Portrait Gallery.

November 26

Milestone: The SIL acquisitions unit began processing orders of books and journals electronically on its SIL Automated Library System through the Smithsonian Institution Bibliographic Information System (SIBIS).

November 28

Telecast: "The Sea: A Quest for Our Future," a one-hour documentary produced by the Office of Telecommunications, had its premiere on the Public Broadcasting System network and subsequently received the 1984 Best Nature Production Award from the International TV Movie Festival (March 1985) and a second-place award from the 1985 National Educational Film Festival.

November 29

New Facility: The archives of American Art officially opened its sixth center, the Southern California Research Center, in San Marino, Calif.

November 29

Publication: The first volume of a series of annual reports, *National Air and Space Museum Research Report 1984*, was published, covering the historical and scientific research programs of the National Air and Space Museum.

December

Discovery: Smithsonian Astrophysical Observatory scientists discovered a new gravitational lens in Constellation Pegasus, a lens which is apparently serving as a "cosmic magnifying glass" to enhance the image of a much more distant quasar.

December

Discovery: Botanists of the Museum of Natural History reported the identification of the deepest growing plant found on Earth, an alga they discovered off an uncharted, underwater island in the Bahamas.

December

Publication: *Solar Flux Atlas from 296 to 1300 nm* was published by SAO, National Solar Observatory and Harvard. The atlas serves as a spectroscopic standard for researchers in solar and planetary physics, stellar spectroscopy, and atmospheric sciences.

December 1

Special Event: The ninth annual "Hirshhorn Holiday for Children" was presented at the Hirshhorn Museum and Sculpture Garden, drawing some 3,500 visitors to the Museum during four hours of live performances.

December 5

Announcement: The Air and Space Museum announced a project to construct and fly a replica of a prehistoric flying reptile, a pterosaur known as *Quetzalcoatlus northropi*. The radio-controlled flying replica will be included in "On the Wing," the museum's upcoming large-screen film that compares natural and mechanical flight.

December 7

Exhibition: *Homage to Franz Kline: Photographs by Aaron Siskind* opened at the Museum of American Art with 48 works, celebrating the friendship between the two artists. In a subsequent public program, Siskind discussed that friendship as well as his own life and work.

December 7-9

Milestone: The National Associates Travel Program celebrated its 13th annual Christmas at the Smithsonian Weekend for Smithsonian Associates, highlighted by a festive dinner and tree-trimming party in the Castle.

December 10

New Facility: The Great Hall of the Smithsonian Institution Building was designated as the site for the Smithsonian Information Center, a central point for visitor information and orientation to the Institution.

December 13

Graduation: Thirty-five high school students graduated from the Office of Elementary and Secondary Education's Career Awareness Program, part of the Institution's affirmative action initiative, which features a special educational program for District of Columbia high school students.

December 13

Milestone: The first artifact--a jar filled with Pacific Halibut plankton specimens--was placed in storage at the Museum Support Center, to be followed by millions of other objects and specimens from the Smithsonian collections.

December 13

Special Event: The Cooper-Hewitt Museum hosted a party in honor of Secretary Adams to introduce him to the friends of the Smithsonian Institution in New York City.

December 14

Exhibition: The opening of the eighth annual *Trees of Christmas*, an exhibition developed by the Office of Horticulture in conjunction with the Museum of American History, included 12 trees decorated to display the ethnic, artistic and cultural use of the Christmas tree.

December 14

Special Event: The Women's Committee of the Smithsonian Associates held its 14th annual Christmas dinner dance in the Museum of Natural History. The proceeds, along with those from the Washington Craft Show, were used to support 29 projects throughout the Institution.

December 21

Exhibition: *Japanese Calligraphy*. Traditional styles of Japanese writing, as well as cursive styles inspired by Chinese models developed during the 8th through 12th centuries, were displayed at the Freer Gallery in this exhibition of screens, hanging scrolls and hand scrolls.

December 26-31

Special Event: "Holiday Celebration," the Museum of American History's annual celebration, drew on the talents of more than 70 musical groups, dramatic performers, artisans and cooks to demonstrate the customs of 22 countries and cultures now practiced during Christmas, Hanukkah and New Year's festivities in the United States. The celebration attracted more than 115,000 visitors.

December 31

Visitors: An estimated 23.5 million visits were recorded at the Smithsonian's 13 museums in Washington, D.C., in 1984. Peak tourist months were June and July, during the *Folklife Festival*, the *Aditi* exhibition at the Museum of Natural History, and the introduction of the new IMAX film, "The Dream Is Alive," at the Air and Space Museum.

January

Acquisition: Successful negotiations began for the purchase of an unparalleled treasury of Islamic and Persian paintings and manuscripts assembled between 1900 and 1943 by Henri Vever, a French Jeweler. The collection provides a comprehensive survey of the art of the Persian book and is considered one of the most significant purchases in the Institution's history.

January

Acquisition: A premier collection of butterflies from North and South America, numbering 100,000 specimens, was acquired by the Museum of Natural History. Included are many species previously not represented in the Smithsonian collection and species previously unknown to scientists.

January

Gift: Gamez and Bolanos, two uninhabited and virtually undisturbed islands off the Pacific coast of Panama, were donated by Mrs. Jean Niemier to the Smithsonian Tropical Research Institute through the Nature Conservancy's International Program in honor of her late husband, Edward A. "Ed" Niemeir.

January

Grants Review: The Office of Fellowships and Grants convened advisory councils to approve Smithsonian Foreign Currency Program grants.

January

New Program: The Educational Fellowship was established by the Office of Fellowships and Grants to support minority students while they pursue graduate study in a relevant Smithsonian field.

January

Report: "Role of Family in the Promotion of Science Literacy," final report for a National Science Foundation grant, was completed by Smithsonian Office of Education Research.

January 11

Acquisitions: The Museum of American Art announced the gift of 311 paintings, sculptures, drawings and collages from Container Corporation of America, including works by Leonard Baskin, Joseph Cornell, Willem de Kooning, Jacob Lawrence, Larry Rivers, James Rosenquist and Ben Shahn.

January 11

Exhibition: *Spanning Niagara: The International Bridges, 1848-1962*, an exhibition of approximately 75 prints, drawings and photographs at the Museum of American History, showed the technical and aesthetic challenges met by the 13 bridges built over the Niagara River to link the United States and Canada.

January 13-15

Workshop: The Smithsonian Environmental Research Center in Rockville, Md., sponsored a workshop in which 15 experts discussed landscape ecology. Future meetings are planned in January 1986 and January 1987 to continue the task of developing a better theoretical basis for this field of ecology.

January 15

Exhibition: *Sharing Traditions: Five Black Artists in Nineteenth-Century America* opened at the Museum of American Art on the anniversary of Martin Luther King Jr's birth. A month-long series of related public programs, "A Festival of Afro-American Arts," included lectures, a musical revue, films, readings, a dance performance and conversations with contemporary artists. Among these events, "Forum '85: A Question of Place," documenting the status of the Afro-American visual artist in the contemporary marketplace, was made possible by a grant from the Metropolitan Life Foundation.

January 16

New Series: A series of orientation gatherings was initiated by the Staff, Volunteer and Intern Services Unit of the Visitor Information and Associates' Reception Center to provide Smithsonian interns with an opportunity to meet their peers and to learn about the Institution as a whole.

January 18

Exhibition: *Peace and Friendship: Indian Peace Medals in the United States* opened at the National Portrait Gallery.

January 18-21

Inaugural Events: Seven Smithsonian museums remained open until 9 p.m. for four days during the week of the Presidential inaugural. Special concerts were offered in the Air and Space Museum and in the Museum of American History. One of the official Inaugural Balls was held in the Air and Space Museum.

January 29-30

Seminar: Dr. Reuven Feuerstein, Israeli psychologist, in collaboration with the Smithsonian Kellogg Project and the Capital Children's Museum in Washington, D.C., presented a two-day seminar at the Smithsonian entitled "The Mediated Learning Experience" for about 70 selected participants.

January 30-February 1

Special Project: A team of 15 conservators and scientists from the Conservation Analytical Laboratory made an extensive study of the condition of the various parts of the Wright Brothers Flyer in preparation for restoration by the staff of the Air and Space Museum.

February

Awards: The Torch, the Smithsonian's staff newspaper produced by the Office of Public Affairs, received an Award of Excellence (second place) in the annual writing competition of the Washington Chapter of the Society of Technical Communication and subsequently a first prize in the Society's international competition. Society awards also went to Smithsonian Institution *Research Reports*, the brochure *Science at the Smithsonian* and several individual stories of the Smithsonian News Service. *Research Reports* also won top honors for writing and design in the annual competition of the American Association of Museums.

February

Film: The Office of Telecommunications completed a half-hour film for educational use. Its working title is "Coral Reefs and the Discovery of New Resources."

February

Milestone: A theme for the inaugural exhibition and associated programs of the International Center was selected. The exhibition, scheduled to open in the Spring of 1987, is tentatively entitled "Generations" and will focus on the universal experience of birth.

February

Research: The gas chromatograph-mass spectrometer of the Conservation Analytical Laboratory, an instrument for the analysis of complicated mixtures of organic materials in very small samples and the only one of its kind in the United States totally devoted to work on museum materials, became operational.

February 1

Exhibition: *Conservation of Modern Art*, an exhibition outlining the treatment and restoration of 26 works from the Hirshhorn Museum's collection, opened at the museum supported by the Women's Committee of the Smithsonian Associates.

February 7-8

Colloquium/Concert: "The Art of Jazz Improvisation: A Festival of Traditional and Contemporary Approaches," held at the Museum of American History, included performances by jazz artists Clark Terry, Archie Shepp, Eddie Barefield and Doc Cheatham and a colloquium chaired by Dr. Leonard Goines, professor of Jazz History at New York University.

February 8

Restoration: The restoration of the 1903 Wright Flyer, the first machine to achieve controlled, powered, heavier-than-air flight, began at the Air and Space Museum. The five-month project was completed in a special gallery that allowed visitors to watch the restoration.

February 13

New Research: Dr. M. James Blackman and Dr. Rita P. Wright started a major archaeometrical project on the production and distribution of ceramics in fourth and third millennia B.C. Middle Asia with the help of funding provided by the Scholarly Studies Program. This project is a cooperative effort between the Conservation Analytical Laboratory and a number of archaeological institutions in Europe and the Middle East.

February 15

Exhibition: The National Portrait Gallery opened the exhibition *Joseph Wright: American Artist, 1756-1793*, accompanied by a full biographical study and the first catalogue raisonne of his work.

February 15

Panel Discussion: In conjunction with the opening of the Museum of American Art exhibition *LIFE: The Second Decade, 1946-1955*, six LIFE photographers reminisced about their magazine careers in a program co-sponsored by the Smithsonian Resident Associates.

February 17-March 18

Special Program: The Office of Museum Programs and USIA co-sponsored a new program, "Collections: Management, Preventive Care and Conservation," enabling 13 international museum professionals to study various aspects of collections management at the Smithsonian and at host museums in six U.S. cities.

February 18-19

Workshop: The Smithsonian Environmental Research Center Facility at Edgewater, Md., and the National Science Foundation convened a group of 50 international experts on the metabolic processes operating below the soil surface in tidal salt marshes.

February 20

Exhibition: *Jim Dine: Five Themes*, a traveling exhibition organized by the Walker Art Center, Minneapolis, opened at the Hirshhorn Museum and Sculpture Garden.

February 25-April 4

Field Course: The Smithsonian Tropical Research Institute and the University of Panama offered the first Graduate Field Course in Marine Ecology. Attendance by a visiting instructor, Dr. Peter W. Glynn, from the University of Miami's Rosenstiel School of Marine and Atmospheric Science, and students from Mexico, Venezuela, Costa Rica, Ecuador and Colombia, was made possible by a grant to STRI from the Tinker Foundation.

February 27

Lecture Series: A five-part "Exploring Space" lecture series, in which well-known space scientists participated, began at the Air and Space Museum. The series continued through June.

March

Acquisition: The Museum of American History and the Pilgrim Society of Plymouth, Mass., jointly acquired a rare silver wine cup that belonged to William Bradford, governor of the Plymouth Colony. On June 14, the cup went on display for approximately two years at the Museum of American History.

March

Contracts Awarded: Leon Van Speybroeck of the Smithsonian Astrophysical Observatory was selected as Telescope Scientist for the Advanced X-Ray Astrophysics Facility and an SAO proposal to build a High Resolution Camera for that spacecraft was accepted for "definition phase" funding.

March

Grant: The National Endowment for the Arts awarded two grants for the production of two new versions of the Office of Telecommunications' film "American Picture Palaces," one a short-subject, the other a half-hour documentary for Public Broadcasting System telecast.

March

Milestone: The National Museum of Natural History celebrated the 75th anniversary of the opening of its present building with a series of events and exhibitions, installations, and publications.

March

New Service: Public tours of the original Smithsonian Institution Building were initiated through the Visitor Information and Associates' Reception Center's Castle docent program.

March 2

Colloquium: "Public Enjoyment of Irish Legacies: Castles, Gardens and Scientific Wonder" featured a joint illustrated presentation on Ireland's lasting treasures by The Hon. Desmond Guinness and the Seventh Earl of Rosse.

March 7

Milestone: The Smithsonian Institution Libraries Translations Publishing Program Review Committee, composed of representatives of four museums, met to rank the proposals received for translation of publications funded with Special Foreign Currency.

March 24-29

Seminar: The National Zoo conducted a five-day seminar, sponsored by Smithsonian National Associates, on animal communication and the Zoo's related research projects and specialized equipment.

March 29

Exhibition: *Creation and Renewal: Views of Cotapaxi* by Frederic Edwin Church opened at the Museum of American Art with 38 works documenting the artist's extended fascination with the Ecuadorian volcano. A related symposium was also held.

April

Research: Stephen Hubbell of the Smithsonian Tropical Research Institute and Peter Ashton of the Harvard Arboretum established a mapping project to study tropical tree diversity and population dynamics at the Pasoh Forest Reserve in conjunction with the Forest Institute of Malaysia. This study is similar to a project underway at Barro Colorado Island, Panama, and will permit comparisons of forest dynamics between Old and New World tropical rain forests.

April

Seminar: John Holt, educator, consultant and author, conducted a seminar on non-school educational means at the Smithsonian's Office of Educational Research.

April 10

Exhibition: A major exhibition entitled *African Masterpieces from the Musee de l'Homme*, one of the most significant collections of African art in the world, opened at the Museum of African Art.

April 11

Exhibitions: *William Edward West, 1788-1857: Kentucky Painter* opened at the National Portrait Gallery. The first exhibition of West's work, it included portraits of Lord Byron, Robert E. Lee and other prominent personalities of the period. A companion exhibition, *A Truthful Likeness: Chester Harding and His Portraits*, was also on view during this period.

April 15

Grant Awards: The Office of Fellowships and Grants designated the 1985-1986 fellowships recipients. The first two recipients of the Rockefeller Foundation Residency Program in the Humanities grant were also announced.

April 15

Installation: The Museum of American Art installed "Achelous and Hercules," a major mural painting by Thomas Hart Benton. This important 1947 work was a gift from Allied Stores Corporation and a museum purchase through the Smithsonian's Major Acquisitions Fund.

April 15

Lecture Series: "Connoisseurship, Collectors and Collections: African Masterpieces from the Musee de l'Homme," an eight-session series of lectures was launched, presented and co-sponsored by the Museum of African Art and the Smithsonian's Resident Associate Program.

April 16

Course: The Resident Associate Program launched a course on "The Television Age" featuring lectures by such distinguished television news correspondents as Roger Mudd, Ted Koppel, Sam Donaldson and Lesley Stahl.

April 21

Award: A first-place award was given to the Office of Horticulture for its display in the Maryland Orchid Society Show.

April 21-24

Workshop: Forty noted soil science authorities gathered at the Smithsonian Environmental Research Center to evaluate the present status of the applications of soil science to environmental research and to write a position paper on future needs.

April 23-27

Conference: The National Zoo acted as host for the "Smithsonian Interbureau Conference on Tropical Biology," focusing on areas where cooperative efforts could be effectively applied. Formal presentations by Tropical Research Center, Museum of Natural History and National Zoo staff were followed by workshop sessions at the Conservation and Research Center in Front Royal, Va.

April 24-28

Workshop: A Kellogg Project workshop on "Conservation Through the Looking Glass," i.e., carrying out conservation work in the exhibition galleries where it can be interpreted for the public, was held at the Fine Arts Museums of San Francisco.

April 26

Exhibition: *Designers of the Jet Age*, devoted to the careers and contributions of two renowned aircraft designers, Ed Heinemann and Clarence "Kelly" Johnson, opened at the Air and Space Museum.

April 26

Exhibition: *The Glazed Ceramic Tradition of Seto and Mino Wares*. Recent research in these neighboring pottery districts generated this Freer exhibition examining the development of glazed ceramics during Japan's medieval period (13th-16th centuries).

April 26-28

Special Event: One hundred craftspeople from 28 states and the District of Columbia participated in the third annual Washington Craft Show, a fundraising activity sponsored by the Women's Committee of the Smithsonian Associates.

April 27-28

Special Event: The Air and Space Museum's forth annual Paul E. Garber Facility Open House attracted more than 8,000 visitors.

May

Award: Secretary Emeritus S. Dillon Ripley was presented the Medal of Freedom by President Ronald Reagan.

May

Award: "Telling Lives: That Damn Cowboy," a production of the Office of Telecommunications, received a CINE Golden Eagle Award.

May

Film: "The Blue Planet," a film on marine ecosystems produced by the Office of Telecommunications for the Marine Life Hall of the Museum of Natural History, was completed.

May

Outreach: *Smithsonian Museums At-A-Glance*, a full-color leaflet designed to promote pre-visit orientation, was produced by the Visitor Information and Associates' Reception Center for distribution through the tour and travel industry.

May

Publication: An essay on 19th-century horticulture, co-authored by James Buckler and Katheryn Meehan, appeared in the exhibition catalogue for *The Art of Gardening--Maryland Landscapes and the American Garden Aesthetic 1730-1930*, presented by the Historical Society of Talbot County, Md.

May 1

Visit: Her Majesty Queen Noor al-Hussein, Queen of the Hashemite Kingdom of Jordan, visited the Freer Gallery of Art.

May 2-4

Symposium: A conference on music in America, held at the Museum of American History, brought together some 50 artists, scholars and organizational representatives to discuss the Smithsonian's role in the research and presentation of American musical forms.

May 6

Appointment: Dean Anderson, Acting Assistant Secretary for History and Art, was named Smithsonian Under Secretary.

May 7

Visit: Mme. Georges Pompidou, widow of the former President of France, toured the galleries, garden and plaza of the Hirshhorn Museum and Sculpture Garden.

May 8

New Study: The Smithsonian Institution Libraries launched a preservation planning program as one of ten libraries selected by the Association of Research Libraries to conduct a self-study to recommend new preservation policies and programs.

May 9

Course: The Resident Associate Program began a course on "The Ascendancy of Asia: The Pacific Community in the 21st Century," in cooperation with the Woodrow Wilson Center's Asia Program and the Asia Foundation.

May 10

Graduation: Commencement exercises were held for the second class of the Cooper-Hewitt Museum and Parsons School of Design Master's Degree Program in the History of Decorative Arts.

May 12-June 10

International Program: The Office of Museum Programs and USIA co-sponsored the sixth annual "Education in Museums" project for 12 international museum professionals.

May 13

Award: The Charles Lang Freer Medal was presented to Prof. Stella Kramrisch, distinguished Indianist.

May 13-17

Training: "Techniques, Uses, Differences and Operating Parameters of Current Paper Suction Tables," an advanced training course taught at the Conservation Analytical Laboratory by seven expert instructors, was attended by 20 conservators.

May 14

Exhibition: *The Arts of South Asia*. In observance of "Aditi: The Festival of India at the Smithsonian," the Freer presented its largest exhibition of painting and sculpture from the Indian subcontinent, including a rare 13th-14th-century bronze bull and other new acquisitions displayed for the first time.

May 14-18

Milestone: Secretary Adams and nine other Smithsonian speakers traveled to Tokyo, Japan for the first international lecture series sponsored by the Smithsonian National Associates Lecture and Seminar Program. Many of the sessions were translated simultaneously into Japanese.

May 16

Exhibition: *Celestial Images: Astronomical Charts, 1500-1900*, at the Museum of American History, displayed 39 rare depictions of star patterns and planetary systems that illustrate a unity of art and science from the Renaissance to the end of the 19th century.

May 16

Special Event: "National Zoofari," a Friends of the National Zoo's annual fundraising event, featured entertainment and silent auctions in support of the T.H. Reed Animal Acquisition Fund.

May 19

Special Event: The Office of Horticulture hosted an open house for Smithsonian staff and volunteers at its greenhouses, providing guests the opportunity to view the plant collections under cultivation.

May 19-23

Seminar: "Aircraft Restoration," a week-long seminar held at the Paul E. Garber Facility, was sponsored by the Smithsonian National Associates Lecture and Seminar Program.

May 20-22

Training: A course on "Metals for Conservators," organized by the Objects Speciality Group of the American Institute for Conservation, was cosponsored by the Conservation Analytical Laboratory.

May 21

Groundbreaking: Secretary Adams and other Smithsonian officials, officials of the National Park Service and members of the Fort Stanton Civic Association participated in groundbreaking ceremonies for the Anacostia Neighborhood Museum Exhibition Hall, Education Department and Public Space.

May 21

Special Event: The Cooper-Hewitt Museum celebrated the opening of the exhibition *Timeless Sources: Rare Books from the Cooper-Hewitt Museum* and the publication of an accompanying handbook.

May 22

Chairman Elected: Sydney Lewis, Chairman of the Board, Chief Executive Officer, Best Products Company Inc., Richmond, Va., was elected Chairman of the Board of Trustees of the Hirshhorn Museum and Sculpture Garden, succeeding Sen. Daniel P. Moynihan (D-N.Y.).

May 25

Summer Hours: Hours at the Air and Space Museum were extended to 7:30 p.m. seven days a week between May 25 and Labor Day.

May 28-31

Training: An advanced training course on wood identification was taught by Dr. Richard Dodd at the Conservation Analytical Laboratory.

June

Acquisition: Asian lions, one male and one female, were added to the collections of the National Zoo as part of a breeding program between cooperating zoos.

June

Awards: Two Smithsonian News Service stories, published by the Office of Public Affairs, received first and third place awards in the National Association of Government Communicators Blue Pencil competition. The television public service announcement "Kids at the Smithsonian," with actress Sandy Duncan, was awarded an NAGC Gold Screen award. "Radio Smithsonian," an Office of Telecommunications production, won two NAGC awards: "Cowboys," a program in the American Stories mini-series, won Best of Competition, and the series as a whole won the Outstanding Audiovisual Production honors.

June

Grant: The Jessie Smith Noyes Foundation awarded \$49,000 to the Smithsonian Tropical Research Institute for fellowships to Latin American students to conduct predoctoral research at STRI.

June

Grants: The Smithsonian Institution Libraries was awarded three grants from the Atherton Seidell Endowment Fund, one to publish scientific records in non-Roman alphabets, a second to purchase back issues of journals for the STRI Branch Library, and the third to acquire an image digitizer that permits rapid teletransmission of documents.

June

National Event: The Festival of India 1985-1986 opened in Washington, D.C., with Smithsonian-wide participation planned for the next 18 months, including exhibitions, seminars, classes, a major portion of the *Festival of American Folklife*, radio programs and publications.

June

Publication: *A Summary Profile of Smithsonian International Activities*, the first comprehensive survey of Smithsonian activities around the world, was published by the Office of Service and Protocol.

June

Publication: Smithsonian Institution Libraries Research Guide No. 4, *African Art: A Bibliographic Guide* by Janet L. Stanley, Chief Librarian of the Museum of African Art Branch Library, was published by Africana Publishing Company, a division of Holmes and Meier.

June

Special Program: Dr. Jerry Bell of the National Science Foundation spoke on community involvement in science education projects at the Community Science Project "Recognition Night" at Johns Hopkins University's Applied Physics Lab, an event sponsored by the Smithsonian Office of Educational Research.

June 3

Special Event: The Cooper-Hewitt Museum opened *Wine: Celebration and Ceremony*, a major exhibition focusing on design related to the history of wine-making and wine-drinking.

June 3-7

Program: Fifteen students from the Multiculture Bilingual High School in Washington, D.C., participated in a one week junior externship program in nine curatorial, administrative, design and education areas. The program was organized by the Office of Museum Programs.

June 4

Acquisition: The Museum of African Art exercised the first option on a major collection of African art objects from the 12th/15th century to the mid-20th century, assembled over the years by a private European collector.

June 4

Exhibition: *Aditi: A Celebration of Life*, a major exhibition marking the Festival of India 1985-1986, opened at the Museum of Natural History. The exhibition, organized by the Museum of Natural History Office of Exhibits and the Office of Folklife Programs, incorporated 2,000 objects with India's venerable folk traditions as expressed by 40 craftsmen and performing artists in a setting simulating Indian village life. Plants native to India were provided by the Office of Horticulture to complement the exhibition.

June 4

Special Event: The Cooper-Hewitt Museum hosted the opening ceremonies of Museum Mile Night in New York City. Mayor Edward I. Koch officiated, and more than 8,000 visitors toured the museum in a three-hour period.

June 5

Award: Christine Jones and William Forman of the Smithsonian Astrophysical Observatory received the Bruno Rossi Award of the American Astronomical Society for their research on hot X-ray coronae around elliptical galaxies.

June 5

Exhibition: *Representation Abroad*, a major exhibition of representational art by 16 artists from Australia, Colombia, Great Britain, France, Italy, West Germany and Spain, opened at the Hirshhorn Museum and Sculpture Garden, previewed on June 4 by 651 guests, including eleven of the artists.

June 5

Series: "Conserving Traditional Cultures," a four-part film/lecture series, was launched. It was organized and co-sponsored by the Office of Folklife Programs, Department of Anthropology, Human Studies Film Archives, and the Resident Associates Program, and featured four award-winning ethnographic films focusing on cultural conservation issues, with interpretations and discussions by leading folklore and anthropology scholars.

June 8

Workshop: A program of films, African board games and music was held at the Museum of African Art for children and their families in connection with the exhibit *African Mankala*.

June 9

Premiere: The Resident Associate Program screened "Wagner," a nine-hour film epic about the operatic genius, in its Washington premiere.

June 10

Internships: The Office of Elementary and Secondary Education began the first session of "Intern '85," a high school intern program which brought 33 students from across the country to participate in a learning/service program at the Smithsonian.

June 10

Workshops: The Office of Elementary and Secondary Education began its summer workshop series for teachers. For local teachers, eight courses ranging from architecture to insects were offered, and for teachers from the rest of the country, a national seminar on the teaching of writing through the use of museums.

June 10-12

Symposium: The Smithsonian Environmental Research Center sponsored a symposium on "Watershed Research Perspectives."

June 12

Exhibition: *The Woven and Graphic Art of Anni Albers*, the first major exhibition of both Albers' graphics and textiles, opened at the Renwick Gallery on the artist's 86th birthday. In a related public program, Nicholas Fox Weber, executive director of the Josef Albers Foundation, discussed the artist and her work.

June 12-14

Training: A training course on polymer chemistry was given by Dr. James Mark and Dr. George Odian at the Conservation Analytical Laboratory.

June 15

Special Event: The world-renowned sitarist Ravi Shankar performed as part of the Festival of India at the Smithsonian in a concert sponsored by the Resident Associate Program.

June 17 and 20

International Project: The Smithsonian Institution Libraries assembled an ad hoc American Review Committee of distinguished museologists to make final revisions to English-language entries in the *Dictionary of Museum Studies*, a multi-lingual glossary of 2,066 museum-related terms, jointly produced by the International Council of Museums and UNESCO.

June 19

Film Premiere: "The Dream Is Alive," a spectacular new large-screen film that offers an insider's view of America's space shuttle program, opened at the Air and Space Museum's Samuel P. Langley Theater. Footage was taken by astronauts during three 1984 space shuttle flights.

June 21

Exhibition: *The Martha Jackson Memorial Collection* opened at the Museum of American Art with 66 works selected from the 127 paintings, sculptures and works on paper donated to the Museum of American Art by Mr. and Mrs. David Anderson.

June 21-24

Symposium: "The Canvas of Culture: Rediscovery of the Past as Adaptation for the Future" was developed as a major Festival of India program.

June 26-30; July 3-7

Folklife Festival: The 19th annual *Festival of American Folklife* featured a *mela*--an Indian fair, Louisiana folklife, and the cultural traditions of indigenous, ethnic and regional communities. Traditional foodways and dance parties were also included.

June 27

Agreement: An agreement facilitating joint research, cooperative programs, and exchanges of scholarships, exhibitions and publications with Malaysian institutions was signed by Secretary Adams and Malaysian Ambassador Dato' Lew Sip Hon on behalf of the Ministry of Culture, Youth and Sports.

June 28

Exhibition: *Fabled Cloth: Batik from Java's North Coast* opened at the Cooper-Hewitt Museum.

June 28

Exhibition: A living microcosm of a Maine coastal ecosystem, housed in a 3,000-gallon aquarium simulating natural conditions, went on display at the Museum of Natural History.

June 28

Telecast: "The Work of Peace," a half-hour film produced by the Office of Telecommunications on the Treaty of Paris of 1783, had its national premiere on the PBS network. The film won the Silver Medal of the International Film and TV Festival of N.Y., the Silver Award at the Houston International Film Festival, a CINE Golden Eagle and second place in the 1985 National Educational Film Festival.

June 30-July 1

Update: Giant pandas Ling-Ling and Hsing-Hsing mated four times. Subsequent urine samples indicated a possible pregnancy.

June/July

Publication: A major five-part series on the Smithsonian Institution appeared in the French magazine *Paris Match*.

July

Gift: Amber collector Jacob Brodzinsky donated to the Museum of Natural History his collection of rare pieces of amber some 24 million years old.

July

Milestone: 18,616 public inquiries, a record monthly high, were received by the Telephone Information Program of the Visitor Information and Associates' Reception Center.

July

Publication: As part of the Festival of India, a 13-part series on "India Today" was distributed by the Smithsonian News Service, a monthly feature-story service of the Office of Public Affairs. The series, based on information gathered by two Public Affairs writers who traveled in India for six weeks, gave a first-hand account of the colorful and complex past, present and future of India.

July

Publication: *Communication and Non-communication by Cephalopods* by Martin Moynihan, Smithsonian Tropical Research Institute, was published by Indiana University Press as part of its series on animal communication.

July 1

Milestone: The Smithsonian Astrophysical Observatory marked the 30th anniversary of the move of its headquarters to Cambridge, Mass., and the beginning of its research association with Harvard College Observatory.

July 1

New Project: The Directorate of International Activities was assigned overall institutional responsibility to coordinate research and planning for the Smithsonian commemoration of the Columbus Quincentenary in 1992.

July 2

Redesign: The design concept and prototypes for uniform exterior identification and direction signs were completed by the Office of Exhibits Central and the Visitor Information and Associates' Reception Center in Phase I of the Institution-wide exterior graphic information program.

July 9

Research: The National Zoo sent a second shipment of golden lion tamarin monkeys to Brazil's Poco das Anta Preserve. Twelve animals in two groups were released in late July as part of the Zoo's ongoing project to save this species from extinction.

July 11

Concert Series: The 1985 summer concert series, "Sunset Serenades," began at the Zoo. Evening performances were held each week until August 29.

July 12

Telecast: "In Open Air: A Portrait of the American Impressionists," a half-hour film produced by the Office of Telecommunications, was telecast nationally over PBS.

July 17

International Protocol: The Government of Panama extended to the Smithsonian Tropical Research Institute the prerogatives and benefits that correspond to International Missions operating in the Republic of Panama.

July 17

Symposium: "Ten Years After Apollo-Soyuz," held at the Air and Space Museum to mark the anniversary of the joint U.S.-U.S.S.R. space program, brought together leading scientists, historians and policymakers from the United States and abroad to discuss cooperation and competition in space. The three astronauts and two cosmonauts who participated in the joint mission were present.

July 22

Appointment: Barnabus McHenry, general counsel for the Reader's Digest Association Inc., was appointed to the Smithsonian Board of Regents.

July 23

Significant Birth: Ryma, a male giraffe, was born in the presence of hundreds of Zoo visitors.

July 24

Visit: His Excellency Li Xiannian, president of the People's Republic of China, toured the Air and Space Museum and viewed the new large-screen film, "The Dream is Alive."

July 25

Exhibition: The Smithsonian Institution Libraries held a reception to open *Panorama of India*, its exhibition of books, plates and manuscripts relating to India, 1698-1898, in the Dibner Library, Special Collections Branch.

July 29

Experiment Flown: An infrared telescope (IRT) designed and built by the Smithsonian Astrophysical Observatory in cooperation with the University of Arizona and the Marshall Space Flight Center was launched aboard Space Shuttle Flight 51F for a week-long mission as part of Spacelab 2.

July 31

Exhibition: An exhibition entitled *Igbo Arts: Community and Cosmos*, the first exhibition ever presented on the art of the Igbo people of Africa, opened at the Museum of African Art.

August

Award: A plastic tote bag designed to promote Associate membership, created by the Visitor Information and Associates' Reception Center in cooperation with *Smithsonian* magazine, received a merit award in the 1985 Printing Industries of American Graphic Award Competition.

August

Calendars: *1986 Smithsonian Family Learning Calendar*, prepared by the Smithsonian Office of Educational Research, was offered for sale through the Smithsonian museums shops, bookstores and catalogs. The Office of Elementary and Secondary Education published *Museum Adventures: A Year at the Smithsonian*, a calendar advertising education programs at the Institution's Washington museums, the Zoo and the Smithsonian Environmental Research Center.

August 4-10

Outreach: Thirty-five high school students and eight teachers participated in an ecology and environmental educational seminar offered by the Smithsonian Tropical Research Institute and Panama's Ministry of Education to acquaint high school students with local marine and terrestrial environments. The seminar was supported by Special Education Outreach funds.

August 6

Exhibition: The Museum of American History marked the 40th anniversary of the dropping of the first atomic bomb in *Building the Bomb: Forty Years after Hiroshima*. The display related the history of the Manhattan Project through photographs, documents and artifacts from Hiroshima and Nagasaki, as well as bomb casings of the types of bombs dropped on the two cities.

August 9

Exhibition: *History as Seen from the National Museum of American History*, an annual display of black-and-white photographs taken by Smithsonian photographers, presented images of protests, celebrations, parades, and dedications that took place near the museum since the beginning of 1984.

August 10

Celebration: American artist Larry Rivers and his 13th Street Band performed at the Hirshhorn Museum and Sculpture Garden in a preview concert for the 20th anniversary of the Smithsonian Resident Associate Program.

August 19

Groundbreaking: A ceremony was held to mark the beginning of the Zoo's Olmstead Walk reconstruction, a project to rejuvenate the main pedestrian pathway in preparation for the Zoo's centennial in 1989.

September

Acquisition: The suit and helmet worn by Sen. Jake Garn (R-Utah), a regent of the Smithsonian Institution, on his Discovery shuttle flight was accessioned by the Air and Space Museum.

September

Presentation: Dr. John Falk and Lynn Dierking of the Smithsonian Office of Educational Research presented a paper, "The Community Science Project: A New Approach to Environmental Education," at the Third International Conference on the Nature and Teaching of Environmental Studies and Sciences in Higher Education, Sunderland, England.

September

Restoration: The original 1902 ceiling fresco in the South Tower room of the Smithsonian Institution Building was uncovered during preliminary restoration activities for the Smithsonian Information Center.

September

Space Sciences: Precise observations of Comet Giacobini-Zinner were carried out by astronomers at the SAO-administered Oak Ridge Observatory to assist in the historic comet rendezvous of the ICE spacecraft.

September

Technology Advancement: The Air and Space Museum announced development of a System for Digital Display that can potentially store up to 100,000 images of documents, maps, books, drawings and three-dimensional artifacts on optical disks. These, in turn, can be easily indexed, searched and images reproduced or telephoned to locations around the world. A patent was subsequently applied for.

September

Television: The Office of Public Affairs produced two public service announcements for national television entitled "America's Memories," with Bob Hope narrating. The spots were close captioned for the hearing impaired and subsequently translated into Spanish.

September 1

Research: "Hopi Social Boundary Maintenance and Exchange Relationships," a new major research project at the Conservation Analytical Laboratory in cooperation with a number of museums and universities, was launched by Dr. Ronald L. Bishop and Dr. Veletta Canouts.

September 1

Acquisition: The Conservation Analytical Laboratory, with special funding provided by the Office of the Assistant Secretary for Museum Programs, acquired a unique collection of reference materials for the analysis of textile dyes, a collection assembled by one of the foremost international experts in this field.

September 4

Publication: The Joseph Henry Papers published the fifth volume of the papers of the Institution's first secretary, documenting the years 1841-1843.

September 4

Workshop: In conjunction with the National Trust for Historic Preservation, the Office of Elementary and Secondary Education presented the first in a series of workshops on making historic sites accessible to disabled visitors.

September 5

Milestone: The first North American exhibition of antiquities from Syria opened at the Walters Art Gallery in Baltimore, Md., organized by the Smithsonian Institution Traveling Exhibition Service and the Directorate General of Antiquities, Syrian Arab Republic. The exhibition, entitled *Ebla to Damascus: Art and Archaeology of Ancient Syria*, consisted of 281 objects representing 10,000 years of history.

September 6

Exhibition: *Painting and Calligraphy of the Ch'ing Dynasty*. Culminating a series of exhibitions, this selection of works (1644-1912) at the Freer showed the artistic impact on Chinese painting and calligraphy of cultural, political and economic change during China's last dynasty.

September 6

Exhibition: *Private Lives of Public Figures: The Nineteenth Century Family Print*. Opened at the National Portrait Gallery.

September 7

Workshop: "Such a Pretty Face: Igbo Maiden Masks," a program for children and adults, included creating replicas of the Igbo masks featured in the current exhibition at the Museum of African Art.

September 9-13

Training: E. Benner Larsen, from the Conservation Training School in Copenhagen, gave a course on "High Quality Molding and Casting of Museum Objects" at the Conservation Analytical Laboratory.

September 11

Renovation: The Smithsonian Institution Libraries began a major renovation project designed to strengthen the Natural History Branch Library through physical expansion and consolidation of its collection as well as to consolidate the central administrative and processing offices of the Libraries.

September 13

Special Event: Smithsonian Associates participating in the 7th annual Smithsonian/Oxford Seminar attended a Convocation and reception in the Castle before departing for England.

September 15

Exhibition: *The Renaissance: Black Arts of the Twenties*, an exhibition displaying the cultural history of the New Negro Movement of the 1920s, opened at the Anacostia Museum.

September 16

Milestone: First live television images of Comet Halley were transmitted nationwide from the Whipple Observatory via the CBS Morning News.

September 16

New Program: The Office of Fellowships and Grants held its first "Visiting Associate Program," designed to increase knowledge of Smithsonian research and opportunities in the minority academic community.

September 18

Premiere: "Huey Long," a 90-minute documentary by Ken Burns, had its premiere at the first of the 1985-86 Frank Nelson Doubleday Lecture Series, sponsored by Doubleday and Company, Inc., and the Museum of American History.

September 20

Publication: The Smithsonian Astrophysical Observatory and the Office of Printing and Photographic Services published *The Electronic Sky*, a collection of 40 computer-processed astronomical images for amateur astronomers, schools, and planetaria, the most extensive collection published to date.

September 20

Special Event: Singer Karen Akers and her trio launched the 20th Anniversary celebration of the Resident Associate Program. The anniversary festivities continued into the fall and included performances, lectures, and receptions.

September 22

Special Event: The Minister of Culture and Sciences of Greece, Melina Mercouri, delivered the inaugural lecture for the Resident Associate Program course, "Today's Greece: A Modern Odyssey," a 20th Anniversary program.

September 23-27

Training: "Glass Restoration," an advanced conservation course, was conducted at the Conservation Analytical Laboratory by Sandra Davidson of the Institute of Archaeology in London.

September 27

Exhibition: *Islamic Metalwork*. This exhibition of the Freer's small but select collection of Islamic metalwork resulted from a year-and-a-half collaborative effort between the technical laboratory and the curatorial staff.

September 30

Update: Construction work continued on the Smithsonian's Center for African, Near Eastern and Asian Cultures. The roof was completed and topped with drainage gravel and top soil in preparation for planting of the gardens.

Appendix I

Members of the Smithsonian Council, Boards, and Commissions, September 30, 1985

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Appendix 2

Smithsonian Special Foreign Currency Program Awards
Made October 1, 1984, through September 30, 1985

ARCHEOLOGY, ANTHROPOLOGY, AND RELATED DISCIPLINES

American Institute of Indian Studies, Chicago, Illinois. Continued support for administration; research fellowships; Center for Art and Archeology; Archives and Research Center for Ethnomusicology; translations fellowships; 1985 elections study project.

American Research Center in Egypt, New York, New York. Operation of Center in Cairo; continuation of the architectural and epigraphic survey of Egypt; fellowship program in the study of archeology and related disciplines.

Arizona State University, Tempe, Arizona. A dictionary of old Marathi.

Boston University, Boston, Massachusetts. Comparative analysis of women's work and family survival and mobility strategies.

Case Western Reserve University, Cleveland, Ohio. Archeological research in Karnataka (India).

Catholic University of America, Washington, D. C. Ethnographic research on Greek medicine among the Pakhtun (Pakistan).

Columbia University, New York, New York. Seminar on the Buddhist Stupa in India and Southeast Asia.

Duke University, Durham, North Carolina. Gandhian socialism as belief and practice (India).

Harvard University, Cambridge, Massachusetts. Cultural and visual anthropological research on Indian ritual.

Indo-U.S. Subcommission on Education and Culture, New York, New York. Indo-American fellowship program.

Massachusetts Institute of Technology, Cambridge, Massachusetts. India's children: policies affecting education and work; technological style of early neolithic pottery from Mehrgarh (Pakistan).

National Museum of American History, Washington, D. C. International symposium on peripatetic societies (India).

San Diego State University, San Diego, California. A comparative study of texts on the tala system of Indian music.

Social Science Research Council, New York, New York. Conference on micro-macro approaches to economic change in South Asia (India).

Southern Methodist University, Dallas, Texas. Prehistory of Egypt (Egypt and India).

State University of New York Binghamton, New York. Effects of Roman colonial system in Serbia, Yugoslavia.

Syracuse University, Syracuse, New York. Conference on Women and the Household (India).

University of Arizona, Tucson, Arizona. Late Quaternary geochronology (Egypt).

University of California, Berkeley, California. Excavations at Opovo-Bajbuk (Yugoslavia); survey for undisturbed Lower and Middle Paleolithic activity sites with falina in India; archeological investigations at Harappa, Pakistan.

University of Chicago, Chicago, Illinois. Seminar on cultural dimensions of the Nationalist period (India).

University of Colorado, Colorado Springs, Colorado. International seminar on religion and challenges of the present (India).

University of Michigan, Ann Arbor, Michigan. Conversations with a Burmese musician.

University of Minnesota, Minneapolis, Minnesota. Architectural plans: Nalanda and the Lodi-Mughal transition (India); intellectuals' responses to the change in northern India (1707-1803) (Pakistan).

University of New Mexico, Albuquerque, New Mexico. Urban space in medieval Hindu imperial capital, Vijayanagara (India).

University of Pennsylvania, Philadelphia, Pennsylvania. A multidisciplinary study of Pakistani folk culture; Pashto verse narrative and technological change (Pakistan).

University of Texas, Austin, Texas. Formative aspects of Burmese civilization (Burma and India).

University of Wisconsin, Madison. Gandharan architecture survey (Pakistan).

SYSTEMATIC AND ENVIRONMENTAL BIOLOGY (INCLUDING PALEOBIOLOGY)

Cornell University, Ithaca, New York. Evolutionary ecology and systematics of Indian Papilionidae.

Dartmouth College, Hanover, New Hampshire. Biology and ecology of freshwater zooplankton and larval fish (India).

Eastern Illinois University, Charleston, Illinois. Symposium on Endangered Marine Animals and Marine Parks (India).

Harvard University, Cambridge, Massachusetts. Later Miocene hominoids and the origins of hominidae (Pakistan).

Herbert H. Lehman College, Bronx, New York. Lower Paleozoic trilobite faunas of northwestern India.

Lincoln Park Zoological Gardens, Chicago, Illinois. Collection and preservation of genetic material of two endangered Asian species.

Michigan State University, East Lansing, Michigan. Seminar on Wildlife Management in Kerala, India.

Museum of Northern Arizona, Flagstaff, Arizona. Triassic vertebrates of peninsular India.

National Museum of Natural History, Washington, D. C. Systematic studies of Indian bamboos.

National Zoological Park, Washington, D. C. Conservation field institute (India); 2nd International Conference on Environmental Education; Symposium of Endangered Marine Animals and Marine Parks (India).

Natural History Museum of Los Angeles County, Los Angeles, California. Middle Eocene archaeocete whales from Kutch, India.

New York University, New York, New York. The snakes of Burma (Burma and India).

Ohio State University, Columbus, Ohio. Ecology of a semitropical monsoonal wetland in India; 2nd International Conference on Environmental Education.

Pennsylvania State University, University Park, Pennsylvania. A comparative study on the old world and new world tiger beetle community structure (India).

Purdue University, West Lafayette, Indiana. Systematics of rust fungi in peninsular India.

Smithsonian Tropical Research Institute, Balboa, Panama. Indian Academy of Sciences Golden Jubilee Symposium; development of program exchange on biological diversity with Center for Ecological Studies (India); Symposium on Endangered Marine Animals and Marine Parks (India).

University of California, Berkeley, California; Ecology and social dynamics: a langur monkey model (India).

University of California, San Diego, California. Evolutionary and systematic biology of snails and their parasites (Burma and India).

University of Colorado, Boulder, Colorado. Ecological and genetic comparison of Alpine rosy finches (India).

University of Kentucky, Lexington, Kentucky. Himalayan bamboos: taxonomy and ecology (India).

University of Miami, Coral Gables, Florida. Biosaline research workshop (Pakistan); symposium of mangroves (India).

University of Michigan, Ann Arbor, Michigan. Evolution of mating systems and sex ratio strategies in tubuliferan trips (India); plumage patterns and speciation in the avian genus *Phylloscopus* (India).

University of Minnesota, St. Paul, Minnesota. Genetic structure of tiger populations (India).

University of North Dakota, Grand Forks, North Dakota. Reproductive biology and conservation of the mugger crocodile (India).

ASTROPHYSICS AND EARTH SCIENCES

American Geophysical Union, New York, New York. Regional Assembly of the International Association of Seismology and the Earth's Interior (India).

Kent State University, Kent, Ohio. Orogenic history of the Sulaiman Range, Pakistan.

National Museum of Natural History, Washington, D. C. Petrology and geochemistry of the Dras volcanics, Himalayas (India).

Smithsonian Astrophysical Observatory, Cambridge, Massachusetts. 5th annual workshop on atomic and molecular physics (India). U. S. participation in the International Astronomical Union Congress (India).

State University of New York, Binghamton, New York. Geomorphology of the Western Ghats, India.

University of Arizona, Tucson, Arizona. Assessing and monitoring desertification in grazing systems (Pakistan).

University of Utah, Salt Lake City, Utah. Rock magnetism of the deep crust (Pakistan).

University of Virginia, Charlottesville, Virginia. Geochemistry of the Irrawaddy River, Burma.

Washington State University, Pullman, Washington. Holocene climatic changes in the Thar Desert (India).

MUSEUM PROGRAMS

Carnegie Museum of Natural History, Pittsburgh, Pennsylvania. Exchange of museum personnel with the National Museum of Natural History, New Delhi, India.

Duke University, Durham, North Carolina. Installation of vertebrate fossil exhibition in Geologic Museum, Cairo, Egypt.

Indo-U.S. Subcommission on Education and Culture, New York, New York. Joint Indo-U.S. programs.

Smithsonian Office of Folklife Programs, Washington, D. C. Festival of India programs at Smithsonian.

Smithsonian Office of Museum Programs, Washington, D. C. Preventative care and maintenance of collections workshop (Pakistan).

Appendix 3

National Museum Act Grants Awarded in Fiscal Year 1985

GRADUATE/PROFESSIONAL EDUCATION AND TRAINING

Columbia University, New York, New York
New York State Historical Association, Cooperstown, New York
State University of New York, Cooperstown, New York
University of Delaware, Newark, Delaware
University of Michigan, Ann Arbor, Michigan
University of Southern California, Los Angeles, California

MUSEUM INTERNSHIPS

Art Institute of Chicago, Chicago, Illinois
Bronx Zoo, Bronx, New York
Denver Art Museum, Denver, Colorado
Harvard University Herbaria, Cambridge, Massachusetts
Historic Deerfield, Deerfield, Massachusetts
Intermuseum Conservation Association, Oberlin, Ohio
Los Angeles County Museum of Art, Los Angeles, California
Missouri Botanical Garden, St. Louis, Missouri
Museum of Fine Arts, Boston, Massachusetts
New York Botanical Garden, Bronx, New York
Northeast Document Conservation Center, Andover, Massachusetts
Philadelphia Museum of Art, Philadelphia, Pennsylvania
Philadelphia Zoo, Philadelphia, Pennsylvania
Rochester Museum and Science Center, Rochester, New York
St. Louis Zoo, St. Louis, Missouri
University of California, Los Angeles, California
University of Kansas, Lawrence, Kansas
University of Pennsylvania, Philadelphia, Pennsylvania
Walker Art Gallery, Minneapolis, Minnesota
Yale University, New Haven, Connecticut

STIPENDS TO INDIVIDUALS FOR CONSERVATION STUDIES

Maria Fredericks, Newberry Library, Chicago, Illinois
Hana Harris, United States/International Council on Monuments and Sites,
Washington, D.C.
Richard Laub, United States/International Council on Monuments and Sites,
Washington, D.C.
Cynthia Luk, Williamstown Regional Art Conservation Laboratory,
Williamstown, Massachusetts
Barbara Mangum, Fitzwilliam Museum, Cambridge, England
Deborah Mayer, Conservation Center for Art and Historic Artifacts,
Philadelphia, Pennsylvania

Benjamin Nistal-Moret, United States/International Council on Monuments
and Sites, Washington, D.C.
Elizabeth Steele, Metropolitan Museum of Art, New York, New York

SEMINARS

Association of Science-Technology Centers, Washington, D.C.
Bucks County Historical Society, Doylestown, Pennsylvania
High Museum of Art, Atlanta, Georgia
Los Angeles County Museum of Art, Los Angeles, California
Minnesota Zoological Park, Apple Valley, Minnesota
National Trust for Historic Preservation, Washington, D.C.
Northeast Document Conservation Center, Andover, Massachusetts
Oklahoma Museums Association, Oklahoma City, Oklahoma
Old Salem, Winston-Salem, North Carolina
Ringling Museum of Art Foundation, Sarasota, Florida
Rocky Mountain Regional Conservation Center, Denver, Colorado
Southern Illinois University, Carbondale, Illinois
Williamstown Regional Art Conservation Laboratory, Williamstown,
Massachusetts

SPECIAL STUDIES AND RESEARCH

Cincinnati Zoo, Cincinnati, Ohio
City of Buena Vista, Buena Vista, Virginia
Indiana University, Bloomington, Indiana
Mystic Marine Life Aquarium, Mystic, Connecticut
North Carolina State University, Raleigh, North Carolina
Old Sturbridge Village, Sturbridge, Massachusetts
San Diego Zoo, San Diego, California
Society for the Preservation of New England Antiquities, Boston,
Massachusetts
University of Louisville, Louisville, Kentucky

SERVICES TO THE FIELD

African-American Museums Association, Washington, D.C.
American Association of Museums, Washington, D.C.
American Association for State and Local History, Nashville, Tennessee
Center for Occupational Hazards, New York, New York
International Species Inventory System, Apple Valley, Minnesota
National Institute for the Conservation of Cultural Property,
Washington, D.C.
Pennsylvania Academy of the Fine Arts, Philadelphia, Pennsylvania

Appendix 4

Academic, Research Training, and Internship Appointments in Fiscal Year 1985

ACADEMIC AND RESEARCH TRAINING APPOINTMENTS

The Smithsonian offers, through the Office of Fellowships and Grants, research and study appointments to visiting scientists, scholars, and students. The appointees are provided access to the Institution's facilities, staff specialties, and reference resources. The persons - listed by bureau, office, or division - in this Appendix began their residencies between October 1, 1984, and September 30, 1985. Predoctoral and Postdoctoral fellows, Graduate Student fellows, Visiting Scientists or Scholars, and other special awards and participants in special programs are so listed. The institution where each Fellow received, or expects to receive, the degree, or the home university or institution of Visiting Scientists or Scholars, and other special appointees are listed. A brief description of the project to be undertaken at the Smithsonian is included where appropriate. The fellow's or visitor's host bureau or office and the Smithsonian advisor are also listed.

CONSERVATION ANALYTICAL LABORATORY

Veletta Canouts, Visiting Scientist, Southern Illinois University. Hopi yellow firing pottery: a structural stylistic approach to 1300-1600 A.D. social relationships with Dr. Ronald Bishop, from September 15, 1985 through September 14, 1986.

Julian Henderson, Postdoctoral Fellow in Materials Analysis, University of Bradford, England. Chemical and archaeological investigation of Iron Age glass from Magdelenska Gora in northwestern Yugoslavia with Dr. James Blackman and Mrs. Jacqueline Olin of the Laboratory and Dr. William Melson, Department of Mineral Sciences, from October 1, 1984 through May 31, 1985.

Cornelius van Horne, Visiting Scientist, Museum voor Land- en Volkenkunde. Research and study of ethnographic and furniture conservation practices with Mr. Mark Williams, Furniture Conservator, and Ms. Carolyn Rose, Anthropology Conservation Laboratory, National Museum of Natural History, from October 1, 1984 through September 30, 1985.

COOPER-HEWITT MUSEUM

Suzanne Tise, Predoctoral Fellow, University of Pittsburgh. Le Moderne: French design and architecture 1910-1935, the Therese Bonney Collection--Cooper-Hewitt Museum with Mr. David McFadden, from August 1, 1985 through July 31, 1986.

FREER GALLERY OF ART

Tadashi Kobayashi, Harold P. Stern Visiting Scholar, Gokushuin University. Study of the Ukiyo-e collection with Ms. Ann Yonemura, from July 17, 1985 through August 23, 1985.

Raman Srinivasan, Graduate Student Fellow, University of Pennsylvania. A scientific and historical investigation of Aranmula mirrors: a case study in metal technology with Ms. Martha Goodway, of the Museum Support Center, and Mr. Tom Chase, Freer Gallery of Art, from May 27, 1985 through June 7, 1985, August 19, 1985 through September 13, 1985 and December 16, 1985 through January 10, 1986.

Richard Wilson, Postdoctoral Fellow, University of Kansas. Problems in connoisseurship: ceramics and paintings attributed to Ogata Kenzan (1663-1743) in the Freer Gallery of Art with Ms. Louise Cort, from June 1, 1985 through May 31, 1986.

HIRSHHORN MUSEUM AND SCULPTURE GARDEN

Michael Oren, Visiting Scholar, University of Massachusetts. Contemporary American avante-garde groups: some historical perspectives with Ms. Lynda Hartigan, Department of Painting and Sculpture, from September 15, 1985 through September 14, 1986.

Rebecca Zurier, Predoctoral Fellow, Yale University. The graphic roots of the Ashcan School with Dr. Judith Zilczer, Department of Painting and Sculpture, from February 1, 1985 through January 31, 1986.

JOSEPH HENRY PAPERS

James Fleming, Postdoctoral Fellow, Princeton University. The Smithsonian meteorological project, 1847-1874 with Dr. Nathan Reingold, from September 15, 1985 through September 14, 1986.

Steven Kottsy, National Historical Publications and Records Commission Fellow, University of Cincinnati. The Papers of Joseph Henry with Dr. Marc Rothenberg, from September 15, 1985 through June 30, 1986.

NATIONAL AIR AND SPACE MUSEUM

Ronald Brashear, Graduate Student Fellow, Johns Hopkins University. The fine guidance system of the Hubble Space telescope with Dr. David DeWerkin, Department of Space Science and Exploration, from June 3, 1985 through August 9, 1985.

Peter Brooks, International Fellow, London University. History of the autogiro and its contribution to the later development of the helicopter with Mr. Ron Davies, Department of Aeronautics, from May 1, 1985 through April 30, 1986.

Leo Goldberg, Martin Marietta Chair in Space History, University of Arizona. History of space physics, 1934-1985 with Mr. Walter Boyne, and staff, from April 1, 1985 through March 31, 1986.

Donald Hooper, Graduate Student Fellow, University of Missouri, Rolla. Use of Viking Orbiter images taken with the three filters to produce some implications for the composition of geologic units as mapped photo-geologically with Dr. Ted Maxwell, Center for Earth and Planetary Studies, from June 3, 1985 through August 9, 1985.

Necati Hurturk, A. Verville Predoctoral Fellow, University of Istanbul. Turkish aviation since 1911 - a comprehensive history with Mr. Ronald Davies, Department of Aeronautics, from September 15, 1985 through September 14, 1986.

Peter Jakab, Predoctoral Fellow, Rutgers University. Beyond Kitty Hawk, the Curtiss-Wright patent suit and beginnings of American aviation with Dr. Tom Crouch, Department of Aeronautics, from November 15, 1984 through November 14, 1985.

Hans J.P. von Ohain, Charles A. Lindbergh Chair, University of Goettingen. The application of gas turbine technology to sea and land transportation and power generation for earth and space with Mr. Walter Boyne, Director, and staff, from October 1, 1984 through September 30, 1985.

Charles Ziegler, Guggenheim Postdoctoral Fellow, Brandeis University. History of the interactive development of aerospace technology and high energy radiation techniques with Dr. Alan Needell, from July 1, 1985 through March 31, 1986.

NATIONAL MUSEUM OF AFRICAN ART

Blythe Follett-Colon, Graduate Student Fellow, University of Connecticut. East African art history, personal art as code: age, gender and women's beaded jewelry with Dr. Roy Sieber, from June 9, 1985 through August 9, 1985.

Barbara Frank, Predoctoral Fellow, Indiana University. Horsetrappings of the Western Sudan: a study of style, technology and history with Dr. Roy Sieber, from September 1, 1985 through August 31, 1986.

Elisha Renne, Graduate Student Fellow, University of Minnesota. A taxonomy of handwoven West African textile: classification by material, design motif, weave and finish with Dr. Roy Sieber, from June 17, 1985 through August 23, 1985.

NATIONAL MUSEUM OF AMERICAN ART

Rebecca Bedell, Predoctoral Fellow, Yale University. Geology and American landscape painting, 1850-1875 with Mr. William Truettner, Department of Painting and Sculpture, from September 1, 1985 through April 30, 1986.

Janet Headley, Predoctoral Fellow, University of Maryland. The influence of English art and aesthetics on American sculptors in Italy from 1825 to 1875 with Dr. Lois Fink, Curator, Office of Research and Fellowships, from September 1, 1985 through August 31, 1986.

Kimberly Kroeger, Graduate Student Fellow, George Washington University. The iconography of the barn in nineteenth century American art with Mr. William Truettner, Department of Painting and Sculpture, from June 3, 1985 through August 9, 1985.

Karol Lawson, Predoctoral Fellow, University of Virginia. The American landscape in painting and prints, c. 1600-1820 with Mr. William Truettner, Department of Painting and Sculpture, from January 1, 1985 through December 31, 1985.

Richard Powell, Predoctoral Fellow, Yale University. William H. Johnson: expressionist and artist of the blues aesthetic with Dr. Virginia Mecklenburg, Department of Painting and Sculpture, from October 1, 1985 through September 30, 1986.

Jontyle Robinson, Faculty Fellow, Emory University. Archibald John Motley, Jr. and his artistic milieu with Mr. Garnett McCoy, Archives of American Art, from September 1, 1985 through December 31, 1985.

NATIONAL MUSEUM OF AMERICAN HISTORY

Elizabeth Blackmar, Postdoctoral Fellow, Harvard University. Central Park: a social history of public space with Mr. Carl Scheele, Department of Social and Cultural History, from September 1, 1985 through August 31, 1986.

Daniel Bluestone, First Ladies Postdoctoral Fellowship, University of Chicago. Promenading and public display in 19th-century American cities with Mrs. Claudia Kidwell and Mr. Carl Scheele, Department of Social and Cultural History, from November 1, 1984 through October 31, 1985.

Christopher Clark, Postdoctoral Fellow, Harvard University. Goods and money in American rural life, c. 1780-1870 with Drs. Gary Kulik and Barbara Clark Smith, Department of Social and Cultural History, from October 1, 1984 through September 30, 1985.

Gail Cooper, Predoctoral Fellow, University of California, Santa Barbara. Manufactured weather: a history of air conditioning, 1906-1979 with Mr. Robert Vogel, Department of the History of Science and Technology, from June 1, 1985 through May 31, 1986.

Colleen Dunlavy, Predoctoral Fellow, Massachusetts Institute of Technology. Variations in 19th-century technological development: a comparative study of railway development in Prussia and the United States, 1830s-1880s with Dr. Robert Post, Department of the History of Science and Technology, from July 15, 1985 through July 14, 1986.

Michael Ettema, Predoctoral Fellow, University of Delaware. The art of materialism: the fashion system of American furniture with Ms. Rodris Roth and Dr. Barbara Smith, Department of Social and Cultural History, from August 1, 1985 through July 31, 1986.

Frank Greenaway, Regents Fellow, Keeper of the Chemistry Department of the Science Museum, London. Artifacts of science and technology and their relation to historical information with Mr. Roger Kennedy, Director, and Dr. Jon Eklund, Department of the History of Science and Technology, from March 1, 1985 through August 31, 1985.

Alferdteen Harrison, Faculty Fellow, University of Kansas. A study of the use of exhibits to interpret Afro-American culture during the age of disenfranchisement with Dr. Spencer Crew, Archives Center, from June 3, 1985 through August 16, 1985.

Christine Hoepfner, Graduate Student Fellow, University of Pennsylvania. THE PAST AND THE PUBLIC: historical artifacts and national ideology: the Smithsonian's flag collection as text with Dr. Gary Kulik, Department of Social and Cultural History, from June 3, 1985 through August 9, 1985.

Donald Jackson, Predoctoral Fellow, University of Pennsylvania. John S. Eastwood and the development of the multiple arch dam with Mr. Robert Vogel, Department of the History of Science and Technology, from November 1, 1984 through October 31, 1985.

Hartmut Keil, Postdoctoral Fellow, University of Munich, Germany. Work traditions, technological transfer and industrialization; German metal workers in American foundry and machine shops, 1870-1910 with Dr. Art Molella, Department of the History of Science and Technology, from October 15, 1984 through July 31, 1985.

Sara Leach, Graduate Student Fellow, University of Virginia. The kitchen in context: a study of the social role of the kitchen in the 17th and 18th century American house types with Dr. Barbara Smith, Department of Social and Cultural History, from June 3, 1985 through August 9, 1985.

Barbara Little, Predoctoral Fellow, State University of New York, Buffalo. Analysis of excavated printers' type with Dr. Elizabeth Harris, Department of Social and Cultural History, from June 1, 1985 through May 31, 1986.

James Livingston, Postdoctoral Fellow, Northern Illinois University. The social analysis of late 19th century economic history with Dr. Gary Kulik, Department of Social and Cultural History, from September 1, 1985 through May 31, 1986.

- Stephanie McCurry, Predoctoral Fellow, University of New York, Binghamton. In defense of their world: yeoman farmers of the low-country and piedmont of ante-bellum South Carolina with Dr. Pete Daniel, Department of the History of Science and Technology, from July 1, 1985 through June 30, 1986.
- Marie McGraw, Postdoctoral Fellow, George Washington University. The structure and organization of the free black community in Richmond, Virginia with Dr. James Horton, Director, Afro-American Communities Project, from September 1, 1985 through August 31, 1986.
- Grace Palladino, Postdoctoral Fellow, University of Pittsburgh. Anthractive coal industry, 1840-1890 with Dr. Pete Daniel, Department of the History of Science and Technology, from September 1, 1985 through August 31, 1986.
- Katherine Preston, Predoctoral Fellow, State University of New York. Traveling opera troupes in the United States, 1830-1875 with Dr. John Hasse, Department of Social and Cultural History, from September 1, 1985 through August 31, 1986.
- Alan Rauch, Graduate Student Fellow, Rutgers University. The rise of science in the novel, 1800-1859: the source of scientific knowledge with Ms. Ellen Wells and Dr. Barbara Melosh, Department of History of Science and Technology, from June 24, 1985 through August 31, 1985.
- Amy Stanley, Predoctoral Fellow, Yale University. The role of contractual practice in gender, commercial, and political relations in 19th-century America with Drs. Gary Kulik and Keith Melder, Department of Social and Cultural History, from March 1, 1985 through February 28, 1986.
- John Swann, Postdoctoral Fellow, University of Wisconsin, Madison. The development of cooperative medical research between universities, the pharmaceutical industry, and the federal government in America, 1895-1945 with Dr. Ramunas Kondratas, Department of the History of Science and Technology, from September 1, 1985 through August 31, 1986.
- Preston Thayer, Graduate Student Fellow, University of Delaware. Daniels' Planer-nineteenth century woodworking machine with Mr. Robert Vogel, Department of the History of Science and Technology, from June 17, 1985 through August 23, 1985.
- Herbert Lee West, Faculty Fellow, University of Minnesota. Black minstrelsy and its impact on black culture in America with Mr. Carl Scheele, Department of Cultural History, from June 1, 1985 through August 31, 1985.

NATIONAL MUSEUM OF NATURAL HISTORY

- David Adamski, Graduate Student Fellow, University of Massachusetts. Phylogenetic study of the Nearctic Blastobasinae (Lepidoptera: Gelechioidea) with Dr. Donald Davis, Department of Entomology, from July 22, 1985 through September 27, 1985.

- James Allan, Postdoctoral Fellow, University of California, Berkeley. Volcanism in the Colima Graben, southwest Mexico with Dr. William Melson, Department of Mineral Sciences, from October 1, 1984 through June 30, 1985.
- Andrew Apter, Predoctoral Fellow, Yale University. Data analysis of Yoruba Orisa worship with Dr. Ivan Karp, Department of Anthropology, from March 1, 1985 through February 28, 1986.
- Don Baker, Postdoctoral Fellow, Pennsylvania State University. The petrogenesis of Aleutian rocks, a petrographic and chemical study with Dr. William Melson, Department of Mineral Sciences, from January 1, 1985 through September 30, 1985.
- James S. Beard, Postdoctoral Fellow, University of California, Davis. A study of ore-related plutonic rocks in the Smartville Complex and gabbro xenoliths from Irazu volcano, Costa Rica with Drs. Sorena Sorenson and William Melson, Department of Mineral Sciences, from July 1, 1985 through June 30, 1986.
- Jonathan Becker, Postdoctoral Fellow, University of Florida. Relationships and evolution of the Limpkin (Aves, Aramidae) and the Crowned Cranes (Aves, Gruidae, Balearicinae) with Dr. Storrs Olson, Department of Vertebrate Zoology, from September 1, 1985 through August 31, 1986.
- Rudiger Bieler, Postdoctoral Fellow, University of Hamburg. The gastropod family, Mathildidae, anatomy, phylogeny, taxonomy, and its position in the "Heterogastropods" with Dr. Richard Houbriek, Department of Invertebrate Zoology, from January 1, 1985 through December 31, 1985.
- Carlos Brunet, Visiting Scientist, University of Houston. Significance of sexual versus asexual recruitment in Acropora cervicornis with Dr. Ian MacIntyre, from June 1, 1985 through September 30, 1985.
- Maria Byrne, Visiting Scientist, University of Victoria, Canada. The reproductive biology of Caribbean ophiuroids that brood their young with Dr. Gordon Hendler, from May 15, 1985 through June 30, 1985.
- John Carr, Graduate Student Fellow, Southern Illinois University, Carbondale. Phylogenetic analysis of a diverse radiation of Neotropical turtles (Rhinochelys) with Dr. George Zug, Department of Vertebrate Zoology, from June 3, 1985 through August 9, 1985.
- Paterno Castillo, Graduate Student Fellow, Washington University. Geology, petrology and tectonic implications of Cocos, Cocos Island, Costa Rica with Dr. Tom Simkin, Department of Mineral Sciences, from June 10, 1985 through August 16, 1985.

- Frederic Cordova, Faculty Fellow, Seattle University. Fifty primitive wild people...head hunters!...dog eaters!...from the Philippine Islands... in Seattle with Dr. Paul Taylor, Department of Anthropology, from July 15, 1985 through September 15, 1985.
- Corrine Ehrlich, Visiting Student, University of Maryland. Solar energy and wave and current energy used to grow turf algae with Dr. Walter Adey, Department of Paleobiology, from May 1, 1985 through April 30, 1986.
- Brian Farrell, Visiting Student, University of Maryland. Study of leaf-beetles (coleoptera: chrysomelidae) with Dr. Terry Erwin, Department of Entomology, from August 1, 1985 through November 30, 1985.
- Kathleen Gordon, Postdoctoral Fellow, Yale University. A test of dental microwear analysis in reconstructing diets of prehistoric human populations with Dr. Douglas Ubelaker, Department of Anthropology, from June 1, 1985 through May 31, 1986.
- Xu Guirong, Senior Postdoctoral Fellow, Peking College of Geology. Upper Permian and lowermost Triassic brachiopod fauna in South China and their main evolutionary events with Dr. Richard Grant, Department of Paleobiology, from September 1, 1985 through August 31, 1986.
- Kris Hardin, Predoctoral Fellow, Indiana University. Technique and the formation of conceptual systems; a West African case with Dr. Ivan Karp, Department of Anthropology, from August 1, 1985 through July 31, 1986.
- Robert Harrington, Postdoctoral Fellow, University of California, Santa Barbara. Morphology, growth interactions among tabulate corals and stromatoporoids with Dr. Ian MacIntyre, Department of Paleobiology, from September 1, 1985 through August 31, 1986.
- Roger Heitzman, Postdoctoral Fellow, University of Maryland. Congruence of larval and adult phylogenies of the Ennemiini with Dr. John Burns, Department of Entomology, from January 1, 1985 through December 31, 1985.
- John Homiak, Postdoctoral Fellow, Brandeis University. Rastafari and the Afro-Jamaican tradition with Dr. William Merrill, Department of Anthropology, from November 1, 1984 through October 31, 1985.
- Scott Ishman, Graduate Student Fellow, Ohio State University. Systematic and morphometric investigation of high latitude late cenozoic foraminifera to determine bi-polarity with Dr. Martin Buzas, Department of Paleobiology, from June 17, 1985 through August 23, 1985.
- Emmet Judziewicz, Predoctoral Fellow, University of Wisconsin, Madison. The search for an out-group for Pharus: the anatomy and morphology of the herbaceous bamboo tribes Anomochloaceae, Streptogyneae and Phareae with Dr. Thomas Soderstrom, Department of Botany, from September 1, 1985 through August 31, 1986.

- Jan Kohlneier, Visiting Scientist, University of North Carolina. Marine fungi at Carrie Bow and Twin Cays with Dr. Klaus Ruetzler, Department of Invertebrate Zoology, from April 1, 1985 through April 30, 1985.
- Brian Lapointe, Visiting Scientist, University of South Florida. A comparison of nutrient status and physiological state of cacroalgae from a Caribbean barrier reef and mangrove ecosystem with Dr. Mark Littler, Department of Botany, from April 1, 1985 through April 30, 1985.
- Diana L. Lipscomb, Visiting Scientist, George Washington University. Mangrove protozoans with Dr. Klaus Ruetzler, Department of Invertebrate Zoology, from July 1, 1985 through July 31, 1985.
- James S. Miller, Postdoctoral Fellow, Cornell University. A phylogenetic analysis of the dioptive genera (Lepidoptera: Notodontidae) with Dr. Robert Robbins, Department of Entomology, from September 1, 1985 through August 31, 1986.
- Oscar Monterrosa, Graduate Student Fellow, University of Puerto Rico. Shrimp from deep-water traps off the south and west coasts of Puerto Rico with Dr. Fenner Chace, Department of Invertebrate Zoology, from July 15, 1985 through September 20, 1985.
- Beth Norden, Predoctoral Fellow, University of Maryland. Taxonomic discrimination and biology of Ceratina (Dupla species group) with Dr. Ronald McGinley, Department of Entomology, from November 15, 1984 through November 14, 1985.
- Lisa Osterman, Postdoctoral Fellow, University of Colorado, Boulder. Pleistocene and holocene foraminiferal assemblages in deep and shallow water arctic marine environments with Dr. Martin Buzas, Department of Paleobiology, from September 1, 1985 through August 31, 1986.
- Esther Peters, Postdoctoral Fellow, University of Rhode Island. The value of histological characters as taxonomic tools for distinguishing species of Dichocoenia (Zoantharia, Scleractinia) with Dr. Stephen Cairns, Department of Invertebrate Zoology, from July 1, 1985 through June 30, 1986.
- Mary Lucas Powell, Postdoctoral Fellow, Northwestern University. Synchronic and diachronic patterns of health and disease in Mississippian populations from the Macon Plateau and the Georgia coast with Dr. Donald Ortner, Department of Anthropology, from November 1, 1984 through October 31, 1985.
- Michael Price, Postdoctoral Fellow, University of Michigan. Development of a new taxonomic system for pteridophytes and reclassification and rearrangement of Smithsonian pteridophyte collections in accordance with this new system with Dr. David Lellinger, Department of Botany, from February 1, 1985 through January 31, 1986.

- David Reid, Postdoctoral Fellow, James Cook University, Australia. The systematics of the genera Bembecium and Peasiella and an investigation of phylogeny within the family Littorinidae with Drs. Joseph Røsewater and Richard Haubrick, Department of Invertebrate Zoology, from February 1, 1985 through January 31, 1986.
- Susanne Renner, Postdoctoral Fellow, University of Hamburg. Systematics and biogeography of Macairea (Melastomataceae) with Dr. John Wurdack, Department of Botany, from July 1, 1985 through June 30, 1986.
- Jean-Loup Rousselot, Postdoctoral Fellow, University of Munich, Germany. Material culture of the Mackenzie Eskimo at contact time with Dr. William Fitzhugh, Department of Anthropology, from October 1, 1984 through September 30, 1985.
- David Russell, Visiting Scientist, George Washington University. Syllid polychaetes from the mangrove environment with Dr. Kristian Fauchald, Department of Invertebrate Zoology, from June 1, 1985 through September 30, 1985.
- Jurgen Sieg, Senior Postdoctoral Fellow, Universitat Osnabrück, Vechta. Systematics and phylogenetic biogeography of Antarctic Tanaidacea with Dr. Thomas Bowman, Department of Invertebrate Zoology, from August 1, 1985 through July 31, 1986.
- Petra Sierwald, Postdoctoral Fellow, University of Hamburg. Systematic position of the spider genus Thalassius SIMON, 1885, within the Pisauridae and definition of monophyletic units within the family with Dr. Jonathan Coddington, Department of Entomology, from June 1, 1985 through May 31, 1986.
- David Stoddart, Regents Fellow, Cambridge University. Biogeography of coral reefs and islands with Dr. Richard Fiske, Director, and staff, from March 1, 1985 through November 30, 1985.
- C.R. Suresh, Predoctoral Fellow, University of Calicut, India. A reinvestigation of the plants of Hortus Malabaricus with Dr. Dan Nicolson, Department of Botany, from October 1, 1984 through September 30, 1985.
- James Thomas, Visiting Scientist, Newfoundland Marine Institute. Diel Migration of Amphipods from specific coral reef substrates, Carrie Bow Cay, Belize with Dr. J.L. Barnard, Department of Invertebrate Zoology, from May 1, 1985 through August 31, 1985.
- Shirley Turner, Postdoctoral Fellow, Arizona State University. Structural study of manganese oxides by single-crystal x-ray diffraction, microprobe analysis and HRTEM with Dr. Jeffrey Post, Department of Mineral Sciences, from July 1, 1985 through June 30, 1986.

Robert Voss, Visiting Scientist, University of Michigan. Phylogenetic significance of male reproductive anatomy in squirrels with Dr. Richard Thorington, Department of Vertebrate Zoology, from February 1, 1985 through January 31, 1986.

David Wahl, Postdoctoral Fellow, University of Kansas. The phylogeny classification of Porizontinae (Hymenoptera: Ichneumonidae) with emphasis upon the larvae with Dr. Ronald McGinley, Department of Entomology, from August 15, 1985 through August 14, 1986.

Charles M. Wahle, Visiting Scientist, University of Maryland. Octocoral biology study at Carrie Bow Cay and Twin Cays with Dr. Klaus Ruetzler, Department of Invertebrate Zoology, from June 1, 1985 through July 31, 1985.

Peter Wainright, Visiting Scientist, University of Chicago. Hogfish feeding with Dr. Klaus Ruetzler, Department of Invertebrate Zoology, from July 1, 1985 through July 31, 1985.

Wirt Wills, Postdoctoral Fellow, University of Michigan. Early village communities in prehistoric American southwest with Drs. Dennis Stanford and William Merrill, Department of Anthropology, from September 1, 1985 through August 31, 1986.

NATIONAL PORTRAIT GALLERY

Elizabeth Brame, Predoctoral Fellow, University of North Carolina-Chapel Hill. Portraits of virtue and genius: the hall of fame and civic portraiture in the early American republic, 1780-1820 with Dr. Ellen Miles, Department of Paintings and Sculpture, from September 1, 1985 through August 31, 1986.

Patricia Johnston, Predoctoral Fellow, Boston University. The work of Edward Steichen and its context in portrait, advertising and fashion photography of the period 1914 to 1938 with Mr. Alan Fern, Director, and Mr. William Stapp, Curatorial Department, from March 1, 1985 through February 28, 1986.

Deborah Van Buren, Predoctoral Fellow, George Washington University. The Cornish colony: the study of an artists' colony 1885-1916 with Dr. Lillian Miller, Charles Willson Peale Papers, from September 1, 1985 through August 31, 1986.

Alan Wallach, Senior Postdoctoral Fellow, Columbia University. Thomas Cole's patronage with Dr. Lillian Miller, Charles Willson Peale Papers, from September 1, 1985 through August 31, 1986.

NATIONAL ZOOLOGICAL PARK

- Mary Allen, Predoctoral Fellow, Michigan State University. Nutritional aspects of insectivory with Dr. Dale Marcellini, Department of Herpetology, and Dr. Richard Montali, Department of Pathology, from January 1, 1985 through December 31, 1985.
- Lee Boyd, Graduate Student Fellow, Cornell University. Reproductive behavior of asiatic wild horses (Equus Przewalskii) with Dr. Christen Wemmer, Department of Conservation, from June 3, 1985 through August 9, 1985.
- Susan D. Crissey, Postdoctoral Fellow, University of Maryland. The relationship of reproduction energetics to climatic origin in deer with Dr. Olav Oftedal, Office of Zoological Research, from September 1, 1985 through August 31, 1986.
- Lisa Forman, Postdoctoral Fellow, University of California, Berkeley. Molecular genetic analysis of captive and natural populations of Leontopithecus with Dr. Katherine Ralls, Office of Zoological Research, from July 15, 1985 through July 14, 1986.
- Georg Schwede, Predoctoral Fellow, University of Bielefeld. Influence of a high and low quality habitat on the socioecology of two white-tailed deer populations with Dr. Christen Wemmer, Department of Conservation, and Dr. John Seidensticker, Department of Mammalogy, from July 1, 1985 through June 30, 1986.
- Nellie Tsipura, Graduate Student Fellow, Washington State University. Similarity of song in neighboring versus non-neighboring Kentucky Warblers with Dr. Eugene Morton, Department of Conservation, from May 13, 1985 through July 22, 1985.

SMITHSONIAN ASTROPHYSICAL OBSERVATORY

- Marc Aaronson, Visiting Scientist, University of Arizona. Extragalactic distance scale, the red stellar content of nearby galaxies and the dynamics of nearby dwarf spheriodals with Dr. David Latham, from May 31, 1985 through August 2, 1985.
- Luis Aguilar-Chiu, Postdoctoral Fellow, University of California, Berkeley. Dynamics of stellar and galactic systems with Dr. Irwin Shapiro, Director, and staff, from September 1, 1985 through August 31, 1986.
- John Biretta, Postdoctoral Fellow, California Institute of Technology. Construction of a unified model for flat radio spectrum quasars and evolution and proper motion of large scale radio with Dr. Irwin Shapiro, Director, and staff, from September 1, 1985 through August 31, 1986.

- Eric Bloemhof, Postdoctoral Fellow, University of California. Observational and experimental studies in optical and infrared astronomy and radio and geoastronomy with Dr. Irwin Shapiro, Director, and staff, from October 1, 1984 through September 30, 1986.
- Richard Burg, Predoctoral Fellow, Harvard University. Optical and infrared astronomy with Dr. Irwin Shapiro and staff, from September 1, 1985 through August 31, 1986.
- Giles Chapman, Visiting Scientist, Harvard University. Structure and dynamics of highly-flattened clusters of galaxies with Dr. Margaret Geller, from July 1, 1985 through December 31, 1985.
- Ronald Eastman, Predoctoral Fellow, University of Michigan. Analysis of a series of optical spectra of the Type II supernova 1980k Th NGC 6946 with Dr. George Rybicki, from September 1, 1985 through August 31, 1986.
- Gary Fuller, Predoctoral Fellow, University of California, Berkeley. Observational study of physical and chemical processes in the inter-stellar medium with Dr. Phil Myers, from September 1, 1985 through August 31, 1986.
- Cheng Fu-Zhen, Visiting Scientist, University of Science and Technology of China-Anhui. Active galactic nuclei with Dr. Harvey Tananbaum, from March 12, 1985 through May 10, 1985.
- Michael Garcia, Education Fellow, Harvard University. Development of the EXITE detector and a study of galactic bulge x-ray sourced variability with Dr. Stephen Murray, from September 1, 1985 through August 31, 1987.
- Kenneth Gibbs, Visiting Scientist, University of Arizona. Optical and infrared astronomy with Dr. Trevor Weekes, from May 1, 1985 through August 31, 1985.
- Gerard Gillanders, Visiting Student, University College, Dublin. Detection of ultra high energy gamma rays from Cygnus X-3 with Dr. Trevor Weekes, from August 1, 1985 through December 31, 1985.
- S.P. Goldman, Visiting Scientist, The University of Western Ontario. Calculation of forbidden transitions in molecular systems with Dr. Alexander Dalgarno, from May 13, 1985 through August 9, 1985.
- Alan G. Gregory, Visiting Scientist, University of Adelaide, Australia. FLWO air shower array with Dr. Trevor Weekes, from September 10, 1985 through December 10, 1985.

Patrick Hartigan, Visiting Student, University of Arizona. Interaction of the collimated flow from a young star exciting the HH objects with the cloud from which the star formed with Drs. John Raymond and Lee Hartmann, from May 27, 1985 through August 18, 1985.

Thomas W. Hartquist, Visiting Scientist, Max-Planck Institut fur Extraterrestrische Physik. Chemistry of magnetohydrodynamic shocks with Dr. Alexander Dalgarno, from May 6, 1985 through June 17, 1985.

Lawrence Krauss, Visiting Scientist, Harvard University. Application of elementary particle physics to astrophysics with Dr. George Rybicki, from June 1, 1985 through July 14, 1985.

Valerie de Lapparent, Predoctoral Fellow, Universite Pans. A study of the Share-Wirtanen counts and analysis of a galaxy redshift survey with Dr. Margaret Geller, from September 1, 1985 through August 31, 1986.

Jon Marcaide, Visiting Scientist, Max-Planck Institut fur Radioastronomie. Interpretation of very long baseline interferometry observations of quasars with Dr. Irwin Shapiro, Director, and staff, from May 18, 1985 through June 18, 1985.

Laurence A. Marschall, Visiting Scientist, Gettysburg College. Study of the internal velocity fields of young open clusters with Dr. David Latham, from June 10, 1985 through August 2, 1985.

Tsevi Maseh, Visiting Scientist, Tel Aviv University. Spectroscopic survey to detect extrasolar close planets with Dr. David Latham, from July 1, 1985 through June 30, 1986.

Lawrence Molnar, Postdoctoral Fellow, Harvard University. Cores of active galactic nuclei (AGNs) with Dr. Irwin Shapiro, Director, and staff from April 1, 1985 through August 31, 1987.

Jeremiah Ostriker, Regents Fellow, Princeton University. The structure and stability of rotating stars with Dr. Irwin Shapiro, Director, and staff, from January 1, 1985 through June 30, 1985.

Ruth Peterson, Visiting Scientist, Harvard University. Globular clusters and the abundances of the chemical elements in very old stars with Dr. David Latham, from June 1, 1985 through May 31, 1986.

Martin Rees, Regents Fellow, Cambridge University. Radio and X-ray astronomy and observational cosmology with Dr. Irwin Shapiro, Director, and staff, from February 21 to April 21, 1985, February 21 to April 21, 1986 and February 21 through April 21, 1987.

Stephen Sackett, Visiting Scientist, Mount Wilson and Las Campanas Observatories. Large scale structure of the universe with Dr. David Latham, from July 1, 1985 through August 23, 1985.

Amiel Sternberg, Predoctoral Fellow, Columbia University. Infrared and ultraviolet observations of molecular hydrogen and of ion-molecule chemistry in interstellar gas clouds with Dr. Alexander Dalgarno, from September 1, 1985 through August 31, 1986.

Wao Mo Sven, Visiting Scientist, California Institute of Technology. Problems involving cosmic strings and axions with Dr. George Field, from September 1, 1985 through November 1, 1985.

Martin Woodard, Visiting Scientist, University of California, San Diego. Relations between solar-cycle activity and low-degree solar five-minute oscillations with Dr. R.W. Noyes, from June 16, 1985 through August 7, 1985.

SMITHSONIAN ENVIRONMENTAL RESEARCH CENTER

Dennis Byrne, Postdoctoral Fellow, University of Kansas. Messenger RNA from Chlamydomonas reinhardtii thylakoid-bound ribosomes with Dr. Maurice Margulies, Rockville, from June 1, 1985 through May 31, 1986.

Bartolomeo Lercari, Visiting Scientist, University of Pisa, Italy. The induction of bulbing in onions by light involving a number of action spectra at different times during the photoperiod with Dr. Gerald Deitzer, Rockville, from May 6, 1985 through November 8, 1985.

Erik Scully, Visiting Scientist, Towson State University. Patterns of growth and reproduction observed in populations of the intertidal hermit crab, Pagurus longicarpus with Dr. Anson Hines, Edgewater, from August 15, 1985 through August 14, 1986.

Jacob Weiner, Postdoctoral Fellow, University of Oregon. Size hierarchies and interspecific competition in weed populations with Dr. Dennis Whigham, Edgewater, from January 1, 1985 through December 31, 1985.

SMITHSONIAN TROPICAL RESEARCH INSTITUTE

Thomas Aide, Predoctoral Fellow, University of Utah. The interactions of leaf phenology and insect herbivory with Dr. Egbert Leigh, from November 1, 1985 to March 31, 1986 and November 1, 1986 through March 31, 1987.

Brian Bock, Postdoctoral Fellow, University of Tennessee, Knoxville. The effects of gene flow barriers on the differentiation of Anolis limifrons sub-populations in Panama with Dr. Joseph Wright, from July 15, 1985 through July 14, 1986.

- Jae Chun Choe, Graduate Student Fellow, Harvard University. Dispersal and social organization in Zoraptera with Dr. William Eberhard, from May 26, 1985 through August 2, 1985.
- Philip Devries, Predoctoral Fellow, University of Texas, Austin. Mutualistic interactions between ants, plants, parasitoids and two species of riodinid butterflies with Dr. Donald Windsor, from September 1, 1985 through August 31, 1986.
- Donald Feener, Postdoctoral Fellow, University of Texas. Defense strategies against competitors, predators and parasites in a tropical ant community with Dr. Joseph Wright, from October 1, 1984 through September 30, 1985.
- Edward Herre, Predoctoral Fellow, University of Iowa. The implications of reproductive allocation patterns for the coevolution of figs and fig pollinating wasps with Drs. Egbert Leigh and Donald Windsor, from September 1, 1985 through August 31, 1986.
- James Marden, Graduate Student Fellow, University of Vermont. Thermoregulatory physiology and behavior of large tropical insects with Dr. David Roubik, from June 3, 1985 through August 9, 1985.
- Keith McGuinness, Postdoctoral Fellow, University of Sydney, Australia. Experimental analysis of disturbance and other factors structuring communities on reef plates in the Caribbean with Dr. John Cubitt, from November 1, 1984 through October 31, 1985.
- Robert Richmond, Postdoctoral Fellow, State University of New York, Stony Brook. The ecology, physiology and population biology of the reef-building coral *Pocillopora damicornis* in the Eastern Pacific with Dr. Jeremy Jackson, from June 1, 1985 through January 31, 1986.
- Kyle Summers, Graduate Student Fellow, University of Michigan. Mating and parental behavior in the green poison-arrow frog, *Dendrobates auratus* with Dr. Stanley Rand, from June 3, 1985 through August 9, 1985.
- Jess Zimmerman, Predoctoral Fellow, University of Utah. Sex change in *Catantopus viridiflavus* with Dr. Joseph Wright, from June 1, 1985 to November 30, 1985 and June 1, 1986 through November 30, 1986.

ACADEMIC, RESEARCH TRAINING, INTERNSHIPS, AND OTHER STUDENT APPOINTMENTS

The Smithsonian offers internship and other appointments to visiting graduate and undergraduate students. The persons - listed by bureau, office, or division - in this Appendix began their appointments between October 1, 1984, and September 30, 1985. Holders of special awards and participants in special programs are so listed. The institutions attended, the title or a brief description of the project undertaken, where appropriate, and the name of the Smithsonian supervisor are given for each intern. The names listed below have been supplied by the individual bureaus, offices, and divisions of the Smithsonian Institution. Duplication of names listed above has not been corrected.

ACADEMIC AND RESEARCH TRAINING APPOINTMENTS

NATIONAL AIR AND SPACE MUSEUM

Peter W. Brooks, International Fellow. History of the autogiro and its contribution to the later development of the helicopter, with Mr. R. E. G. Davies, Department of Aeronautics, from May 1, 1985, through April 30, 1986.

Peter L. Doorn, Planetary Geology Undergraduate Research Program. Analysis of structural features on Mars, with Dr. Ted Maxwell, Center for Earth and Planetary Studies, from June 3 through July 26, 1985.

Leo Goldberg, the Martin Marietta Chair in Space History. Compile memoirs of his career as an astronomer, administrator, and participant in NASA's space science program, with Dr. D. H. DeVorkin, Department of Space Science and Exploration, from April 1, 1985, through March 31, 1986.

Adam L. Gruen, Guggenheim Predoctoral Fellow. United States civilian space station concepts: a case study of the nature of technological change, 1958-1983, with Ms. Linda Ezell, Department of Space Science and Exploration, from September 1, 1984, through August 31, 1985.

Donald M. Hooper, Smithsonian Graduate Student Fellow. Investigations of Mars stratigraphy using Viking Orbiter data, with Dr. Ted Maxwell, Center for Earth and Planetary Studies, from June 3 through August 9, 1985.

Kivanc Hurturk, Alfred Verville Fellow. Turkish aviation since 1911: a comprehensive history, with Mr. R. E. G. Davies, Department of Aeronautics, from September 15, 1985, through September 14, 1986.

Peter L. Jakab, Smithsonian Graduate Student Fellow. Ph.D. dissertation on early American aviation and the integration of the airplane into American life, with Dr. Tom Crouch, Department of Aeronautics, from November 15, 1984, through November 14, 1985.

Richard K. Smith, Alfred Verville Fellow. The new American airplane of 1934, with Mr. R. E. G. Davies, Department of Aeronautics, from September 17, 1984, through September 16, 1985.

Joseph N. Tatarewicz, Guggenheim Postdoctoral Fellow. The role of planetary astronomers in developing the Space Telescope, with Dr. Allan Needell, Department of Space Science and Exploration, from December 15, 1983, through December 14, 1984.

Hans J. P. von Ohain, the Charles A. Lindbergh Chair of Aerospace History. Application of gas turbine technology to sea and land transportation and power generation for earth and space, with Mr. E. T. Wooldridge, Department of Aeronautics, from October 1, 1984, through September 30, 1985.

Charles A. Ziegler, Guggenheim Predoctoral Fellow. History of the interactive development of aerospace technology and high energy measurement techniques, with Dr. Allan Needell, Department of Space Science and Exploration, from July 1, 1985, through March 31, 1986.

INTERNSHIP AND OTHER STUDENT APPOINTMENTS

NATIONAL AIR AND SPACE MUSEUM

Edward Arnold, B.S. candidate, George Mason University, with Dr. Patricia Jacobberger, Center for Earth and Planetary Studies, from October 1 through December 31, 1984.

Robert Berkowitz, B.S. candidate, Carnegie-Mellon University, with Dr. David DeVorkin, Department of Space Science and Exploration, from September 18 through December 17, 1985.

Tracy Bessette, B.S. candidate, University of Delaware, with Mr. Thomas Callen, Albert Einstein Planetarium, September 13 through December 20, 1985.

Kelly Doucet, B.S. candidate, Gallaudet College, with Mr. Dale Hrabak, Photography Office, from January 23 through May 17, 1985.

Ronald Duncan, M.A. candidate, University of Idaho, with Dr. Patricia Jacobberger, Center for Earth and Planetary Studies, from June 3 through August 2, 1985.

Martin Fetherston, B.S. candidate, College of the Holy Cross, with Dr. David DeVorkin, Department of Space Science and Exploration, from January 14 through April 30, 1985.

Leslie Gerber, B.A. candidate, University of Maryland, with Ms. Barbara Brennan, Exhibits Division, from June 10 through August 16, 1985.

Tom Gilliam, M.A. candidate, Wright State University, with Ms. Robin Schroffel, Office of the Registrar, from June 17 through August 23, 1985.

Beatrice Locher, B.A. candidate, Boston College, with Ms. Holly Haynes, Office of Public Affairs and Museum Services, from June 10 through August 16, 1985.

Timothy Noakes, B.S. candidate, Notre Dame University, with Dr. David DeVorkin, Department of Space Science and Exploration, from June 10 through August 16, 1985.

Alicia Rosenfeld, B.A. candidate, The American University, with Ms. Holly Haynes, Office of Public Affairs and Museum Services, from March 4 through May 3, 1985.

Mark Taylor, B.S. candidate, George Mason University, with Ms. Patricia Woodside, Exhibits Division, from June 10 through August 16, 1985.

Ashley Tidey, B.A. candidate, Williams College, with Miss Helen Claire McMahon, Office of Aerospace Education and Publications, from June 10 through August 9, 1985.

Curtis Utz, M.A. candidate, University of Maryland, with Dr. Tom Crouch, Department of Aeronautics, from June 10 through August 16, 1985.

Eric Wichman, B.S. candidate, University of Maryland, with Ms. Mary Valdivia, Exhibits Division, from July 1 through September 6, 1985.

SMITHSONIAN ENVIRONMENTAL RESEARCH CENTER

DENNIS BYRNE, Postdoctoral Fellow, University of Kansas. *Messenger RNA from Chlamydomonas reinhardtii thylakoid-bound ribosomes*, with Dr. Maurice Margulies, from June 1, 1985 through May 31, 1986.

SILVIA FROSCH, Postdoctoral Fellow, University of Geneva, Geneva, Switzerland. *Leaf gradients and circadian rhythms in photosynthetic capacity in relation to photoperiodic induction in long-day plants*, with Dr. Gerald Deitzer, from September 1, 1984 through August 27, 1985.

ELIEZER GOLDSCHMIDT, Visiting Scientist, Hebrew University of Jerusalem, Rehovot, Israel. *Investigation into the chemical control of flowering in Pharbitis nil*, with Dr. Charles Cleland, from January 1, 1985 through March 31, 1985.

MICHAEL KRONES, Visiting Student, University of Maryland, *Automatic control systems testing the effects of dynamic changes in light quality on plant growth*, with Dr. John Sager, from August 1, 1985 through May 31, 1986.

BARTOLOMEO LERCARI, Visiting Scientist, University of Pisa, Pisa, Italy. *Phytochrome action in the photoperiodic regulation of bulbing in onion, Allium cepa L.*, with Dr. Gerald Deitzer, from May 6, 1985 through November 8, 1985.

MAMORU MIMURO, Visiting Scientist, University of Tokyo. *Terminal pigment in a major light harvesting photosynthetic pigment complex (Phycobilisomes)*, with Dr. Elisabeth Gantt, from April 1, 1985 through September 30, 1985.

INGRID OLMSTED, Visiting Scholar, Centro de Investigaciones de Quintana Roo, Mexico. *Vegetational analysis for Sian Ka'an Reserve*, with Dr. Dennis Whigham, from June 24, 1985 through July 30, 1985.

ERIC SCULLY, Postdoctoral Fellow, Towson State University. *Latitudinal variation in life history parameters of the hermit crab, Pagurus longicarpus*, with Dr. Anson Hines, from August 15, 1985 through August 14, 1986.

TIMOTHY SPIRA, Visiting Scholar, Georgia Southern College. *Reproductive aspects of Hibiscus palustris*, with Dr. Dennis Whigham from June 1, 1985 through August 31, 1985.

FREDRICKA SPONGA, Visiting Scientist, University of Pisa, Pisa, Italy. *Blue light "HIR" in anthocyanin production: cryptochrome or phytochrome*, with Dr. GERALD DEITZER, from June 24, 1985 through July 19, 1985 and September 9, 1985 through November 30, 1985.

LISA WAGNER, Georgia Southern College. *Biomass allocation of species of Poa*, with Dr. Dennis Whigham, from March 1 through August 31, 1985.

JACOB WEINER, Postdoctoral Fellow, Swarthmore College. *Self-thinning in wild rice - Zizania aquatica var. aquatica*, with Dr. Dennis Whigham, from January 1, 1985 through December 31, 1985.

DONNA WOLCOTT, Visiting Scholar, North Carolina State University. *Development of ultrasonic telemetry of feeding in blue crabs*, with Dr. Anson Hines, from May 1, 1985 through August 31, 1985.

THOMAS WOLCOTT, Visiting Scholar, North Carolina State University. *Development of telemetry of feeding in blue crabs*, with Dr. Anson Hines, from May 1, 1985 through August 31, 1985.

SMITHSONIAN ENVIRONMENTAL RESEARCH CENTER

PATRICK FLAHERTY, Work/Learn Student, B.S. candidate, University of Pittsburgh. *Nutrient exchange in brackish marshes*, with Dr. Thomas Jordan, from May 13, 1985 through August 9, 1985.

SHARON HOSKO, Work/Learn Student, B.S., Baldwin-Wallace College. *Community structure and population dynamics of benthic invertebrates in an estuary*, with Dr. Anson Hines, from May 20, 1985 through September 27, 1985.

ANN LEVIN, Work/Learn Student, M.A., University of California, Davis. *Insect Ecology*, with Dr. James Lynch, from May 6, 1985 through August 30, 1985.

MONICA MCMANUS, Work/Learn Student, B.S., University of New Hampshire. *Woodland herb migration*, with Dr. Dennis Whigham, from June 10, 1985 through August 30, 1985.

MERLE POTCHINSKY, Work/Learn Student, B.S. candidate, Brandeis University. *Estuarine fish biology project*, with Dr. Anson Hines, from May 20, 1985 through August 23, 1985.

JAMES SCHAFER, Research Intern, M.S., Eastern Kentucky University. *Chemistry of forest throughfall*, with Dr. David Correll, from April 1985 through September 1985.

ADRIAN WESOL, Work/Learn Student, B.S., Southern Illinois University. *Community structure and population of benthic invertebrates in an estuary*, with Dr. Anson Hines, from April 1, 1985 through June 21, 1985.

LENORE WEICHERT, B.S. candidate, University of Maryland. *Population and feeding of estuarine fish*, with Dr. Anson Hines, from March 4, 1985 through September 27, 1985.

ACADEMIC AND RESEARCH TRAINING APPOINTMENTS SMITHSONIAN OFFICE OF EDUCATIONAL RESEARCH

Doris Johnson, Ph.D. candidate, University of the District of Columbia. *Pilot study on museum research* with Dr. John Balling, from September through December 1984.

Gail Leeds, M.A., George Washington University. *Collect bibliographic information on learning in museums* for Dr. Falk, from July through August 1985.

Stephanie Ratcliffe, Museum Education Program, George Washington University. *Worked with Director on community science project research* from January through May 1985.

SMITHSONIAN TROPICAL RESEARCH INSTITUTE

Academic, Research Training and Internship Appointments in
Fiscal Year 1985

Program in Tropical Biology

Brian Bock, Postdoctoral Fellow, University of Tennessee. The Effects of Gene Flow Barriers on the Differentiation of Anolis limifrons Sub-populations in Panama, with Dr. Joseph Wright, from July 15, 1985 through July 14, 1986.

Philip DeVries, Predoctoral Fellow, University of Texas at Austin. Mutualistic Interactions between Ants, Plants, Parasitoids and Two Species of Riodinid Butterflies, with Dr. Donald M. Windsor, from September 1, 1985 through August 30, 1986.

Jae Choe, Graduate Student Fellow, Harvard University. Dispersal and Social Organization in Zoroptera, with Dr. William Eberhard, from June 3 through August 9, 1985.

Nancy B. Elliot, Short-term Visitors, Sienna College, Presocial Behavior in Cerceris, with Dr. Mary Jane West-Eberhard, from July 1 through July 31, 1985.

William M. Elliot, Short-term Visitor, Hartwick College. Presocial Behavior in Cerceris, with Dr. Mary Jane West-Eberhard, from July 1 through July 31, 1985.

Donald Feener, Postdoctoral Fellow, University of Iowa. Defense Strategies against Competitors, Predators and Parasites in a Tropical Ant Community, with Dr. Stephen P. Hubbell, from October 1, 1984 through September 30, 1985.

Mickey Marcus, Visiting Student, University of Maine at Orono. Study of Frugivory and Seed Dispersal by Birds and Terrestrial Mammals of Understory Trees and Shrubs in the Premontane Forests of the Camarca de San Blas, with Drs. Egbert Leigh and Nicholas Smythe, from October 1 through December 10, 1985.

James Marden, Graduate Student Fellow, University of Vermont. Thermoregulatory Physiology and Behavior of Large Tropical Insects, with Dr. David W. Roubik, from June 1 through August 14, 1985.

Keith McGuinness, Postdoctoral Fellow, University of Sydney, Australia. Experimental Analysis of Disturbance and other Factors Structuring Reef Plates in the Caribbean, with Dr. John Cubit, from November 1, 1985 through October 31, 1986.

Robert Richmond, Postdoctoral Fellow, State University of New York at Stony Brook. The Ecology, Physiology and Population Biology of the Reef-building Pocillopora damicornis in the Eastern Pacific, with Dr. Jeremy J.C. Jackson, from June 1 through December 31, 1985 and July 1 through August 31, 1986.

Kyle Summers, Visiting Graduate Student, University of Michigan. Mating and Parental Behavior in the Green Poison-arrow Frog, Dendrobates auratus, with Dr. A. Stanley Rand, from June 1 through August 9, 1985.

Jess Zimmerman, Predoctoral Fellow, University of Utah. The Ecological Implications of Sex Change in the Orchid, Catasetum viridiflavum, with Drs. Alan P. Smith and Joseph Wright, from June 1 through November 30, 1985 and June 1 through November 30, 1986.

Short-term Fellowships in Tropical Biology

Eldredge Bermingham, Ph.D. candidate, University of Georgia. Mitochondrial DNA Differentiation among Fishes and Invertebrates of the Eastern Pacific and Caribbean: Testing a Molecular Clock, with Dr. Harilaos Lessios, from September 27 through November 1, 1985.

Scott Carroll, Ph.D. candidate, University of Utah. The Ecology of Reproductive Competition among Male Dysdercus bimaculatus, with Dr. Joseph Wright, from February 1 through April 30, 1985.

Christian D'Orgeix, M.S. candidate, California State University at Fullerton. Individual Recognition of Conspecifics in the Lizard Anolis limifrons on Barro Colorado Island, with Dr. A. Stanley Rand, from May 1 through September 30, 1985.

Jeronimo García, M.S. candidate, University of Iowa. Strategies of Establishment of Neotropical Trees, with Dr. Stephen Hubbell, from May 15 - August 15, 1985.

Monica Geber, Ph.D. candidate, University of Utah. Ecological and Populational Determinants of Mating System in Parasitic Fig Wasps of the Genus Idarnes (Torymidea: Chalcioidea), with Dr. Donald Windsor, from November 1, 1984 through January 31, 1985.

Matthew Grober, Ph.D. candidate, University of California at Los Angeles. The Anti-Predator Functions of Bioluminescence in Tropical Ophiuroids, with Dr. Harilaos Lessios, from November 9, 1984 through February 8, 1985.

Michael Keller, Ph.D. candidate, Princeton University. Chemistry of the Soils of Barro Colorado Island: A Study of Rock and Soil Weathering, with Dr. Egbert Leigh, from December 15, 1985 through January 30, 1986.

Eric Larsen, Ph.D. candidate, University of Arizona. Community Structure of Tropical Aquatic Insects, with Dr. Joseph Wright, from March 1 through May 15, 1985.

Catherine McFadden, Ph.D. candidate, University of Washington. Size Regulation and Patterns of Dispersion in Colonial Organisms: a Dependence on Flow, with Dr. Jeremy J.C. Jackson, from September 23 - December 20, 1985.

Giselle Mora, Ph.D. candidate, University of Florida. Egg Guarding by Males in Zygopachylus albomarginis (Arachnida: Opiliones: Gonyleptidae), with Dr. Egbert Leigh, from August 7 - December 17, 1985.

Christopher Peterson, Ph.D., University of Arizona. Gender Allocation in Simultaneous Hemaphroditic Animals: Tests for Plasticity in Allocation, with Dr. D. Ross Robertson, from May 22 through August 27, 1985.

Kathryn Sieving, Ph.D. candidate, University of Illinois. Habitat Use and Abundance among Insectivorous Birds of Tropical Forest Understory: Peru - Panama Comparison, with Dr. James R. Karr, from June 1 through August 31, 1985.

Keryea Soong, Ph.D. candidate, University of Texas at Austin. Reproductive Strategies in the Branching Coral, Porites furcata, in various habitats at Galeta Point, Panama, with Dr. Jeremy J.C. Jackson, from July 15 through August 30, 1985.

Nathan Stephenson, M.S. candidate, Cornell University. A Comparison of Habitat Fidelity of Tropical and Temperate Alpine Plants, with Dr. Alan Smith, from September 1 through December 31, 1985.

Fellowship & Assistantship Program

Victor Acuña, Exxon Assistant, University of Costa Rica. Environment, Settlement and Subsistence in Central Panama, with Dr. Richard Cooke, from June 3 through November 2, 1985.

Nidia Aguirre, Exxon Assistant, University of Panama. Phytoliths in Modern Plants and Archaeological and Geological Soils, with Dr. Dolores Piperno, from February 1 through July 24, 1985.

Germán I. Andrade, Exxon Assistant, Institute of Natural Resources, Colombia. Study of Understory Birds in the Barro Colorado Nature Monument and Soberania National Park, with Doctors Marina Wong and James Karr, from January 16 through April 12, 1985.

Itzel D. Angulo, Exxon Assistant, University of Panama. Population Structure and Ecology of Spiny Lobsters, with Dr. R. Anne Richards, from November 9 through December 21, 1984.

Axel Calderón, Exxon Assistant, University of Panama. Breeding Isopods from the Different Coasts of Panama, with Dr. James Weinberg, from April 23 through June 7, 1985 and Sea Urchin Studies, with Dr. Harilaos Lessios, from July 15 through October 4, 1985.

Ricardo Calvo, Exxon Assistant, Universidad Simón Bolívar, Venezuela. Study of Reproductive System and Pollination in Erythrina costaricensis, with Dr. Lyn Loveless, from September 7 through December 7, 1985.

Ricardo Caicedo, Marine Ecology Post-Course Award, University of Panama. Distribución y Aspectos Taxonómicos de los Moluscos Marinos del Archipiélago de Las Mulatas, San Blas, with Dr. Harilaos Lessios, from August 1, 1985 through January 31, 1986.

Alcibiades Cedeño, Exxon Assistant, Universidad de Rio Grande, Brazil. Study of Fish Otoliths, with Dr. Ross Robertson, from September 5, 1985 through January 17, 1986.

Clementina Chung, Exxon Assistant, University of Panama. Comparative Ecology of Growth Form in Two Species of Palms, with Kevin Hogan, from February 2 through May 10, 1985.

Fernando Cornejo, Exxon Assistant, Universidad Agraria del Perú. Mapping Project of Trees on a 50 hectare Section of Forest on Barro Colorado Island, with Dr. Robin Foster, from September 11 through December 10, 1985.

Amada Domínguez, Exxon Assistant, University of Panama. Preparation of Illustrated Flora of Seedlings of Panama Tropical Moist Forest, with Dr. Nancy Garwood, from September 2 through November 22, 1985.

Silvia Farrugia and Ernesto Ponce, Exxon Fellows, University of Panama. Distribución de invertebrados en un manglar en Juan Díaz en la estación seca, with Prof. Victor Hugo Tejera and Dr. Neal Smith, from February 15 through May 15, 1985.

Rosa E. Franco, Exxon Assistant, University of Panama. Iguana Management Project, with Dr. Dagmar Werner, from February 15 through May 15, 1985.

Octavio González, Exxon Assistant, University of Panama. Iguana Management Project, with Dr. Dagmar Werner, from February 15 through May 15, 1985.

Modesto Guardia, Exxon Assistant, University of Panama. Physiological Study of Diapause in Certain Species of Beetles, with Dr. Seiji Tanaka, from April 29 through November 8, 1985.

Belkys Jiménez, Exxon Assistant, University of Panama. Habitat Use and Selection by Birds in Soberania National Park, with Dr. James Karr and Kathryn Sieving, from June 10 through August 15, 1985.

Gustavo Justine and Freddy Pérez, Marine Ecology Post-Course Award, Dirección de Recursos Marinos and University of Panama. Cantidad y calidad energética del material de reserva contenido en las etapas iniciales de vida de los cangrejos Xanthidos: Xanthidius stenberghii y Eurypamopeus planus, with Dr. John Christy, from August 1 through October 31, 1985.

Georgina Lezcano, Exxon Assistant, University of Panama. Patterns of Leaf Development in Tropical Species: Implications for Carbon Gain and Herbivory, with Doctors Phyllis Coley and Thomas Kursar, from September 11 through December 23, 1985.

Elsa Meza, Exxon Assistant, Universidad Nacional del Centro del Perú. Study of Tachygalia Trees on Barro Colorado Island, with Dr. Robin Foster, from April 5 through October 1, 1985.

Angel Modes, Exxon Assistant, University of Panama. Population Dynamics and Ecology of Rocky Intertidal Organisms, with Dr. Hugh Caffey, from October 15, 1984 through January 4, 1985.

Luis Manuel Mota, Exxon Assistant, Universidad Nacional Autónoma de México. Experimental Study of Selection of Natural Diets by Hatchling Iguanas, with Dr. Dagmar Werner, from May 17 through September 15, 1985.

Freddy Pérez, Exxon Assistant and Tinker Intern, Universidad del Valle, Colombia. Body Size, Reproductive Traits and Mating System of Fiddler Crabs of the Pacific Coast of Panama, with Dr. John Christy, from April 23 through October 15, 1985.

Ada Rodríguez, Exxon Assistant, University of Panama. Study of Leaf Loss on Ten Different Plants in a Tropical Forest, with Dr. Peter Becker, from May 29 through December 31, 1985.

Jorge Roldán, Exxon Assistant, University of Panama. Faunal Study of the Kuna-Yala Nature Reserve, with Mickey Marcus and Susan Charnley from October 1, 1984 through June 24, 1985.

Myozotis Ryfkogel, Exxon Assistant, University of Panama. Demographic Study of Tropical House Wrens, with Dr. Leonard Freed, from July 8 through September 27, 1985.

Nereyda Sánchez, Exxon Assistant, University of Panama. Management of the Green Iguana, with Dr. Dagmar Werner, from February 15 through May 15, 1985.

Róger Séptimo, Exxon Fellow, University of Panama. Efectos Agroecológicos de la Carretera Chiriquí-Bocas del Toro sobre la Población Guaymí, with Doctors Luz Graciela Joly, John Bort and Richard Cooke, from August 5 through November 15, 1985.

Isabel Urrieztietia, Exxon Assistant, Fundación Científica Los Roques, Venezuela. The Biology of Commensal Crustaceans and Population Biology of Acropora cervi cornis, with Dr. Nancy Knowlton, from September 22 through December 15, 1985.

María Vergara, Exxon Assistant, University of Panama. Management of the Green Iguana, with Dr. Dagmar Werner, from February 15 through May 15, 1985.

Ileana Visuetti, Exxon Assistant, University of Panama. Breeding Experiments between Isopods of the Atlantic and Pacific Oceans, with Dr. James Weinberg, from October 3 through December 12, 1985.

Luis Wong, Exxon Assistant, University of Havana. Population Biology of the Coral, Pocillopora damicornis in the Eastern Pacific, with Dr. Robert Richmond, from September 2 through November 22, 1985.

Ernesto Weil, Exxon Assistant, Fundación Científica Los Roques, Venezuela. Study of Encrusting Organisms on Coral Reefs on Both Coasts of Panama, with Dr. Jeremy J.C. Jackson, from June 12 through November 30, 1985.

Fernando Zapata, Exxon Assistant, University of Arizona, Study of Seabasses in the San Blas Islands and Taboga Island, with Dr. Christopher Petersen, from June 10 through August 17, 1985.

Lydia Zubieta, Intern, Hood College, Courtship Behavior of Fiddler Crabs and Dispersal of Crab Larvae, with Dr. John Christy, from May 23 through July 31, 1985.

SMITHSONIAN TROPICAL RESEARCH INSTITUTE

Visiting Scholars

Dr. Rodolfo Dirzo, Universidad Autónoma de México.
Dr. Jack Goody, Cambridge University.
Dr. Esther Goody, Cambridge University.
Dr. Nigel Franks, University of Bath, England.
Ms. Dominique Irvine, Stanford University.
Lic. Victor Martínez, Universidad Autónoma de México.
Dr. Ernest Williams, Harvard University.

CENTER FOR ASIAN ART FREER GALLERY OF ART and the ARTHUR M. SACKLER GALLERY

Katharine Burnett, Freer Fellow, M. A. Candidate, University of Michigan, Ann Arbor. "The Shanghai Collector P'ang Lai-ch'en," with Dr. Shen C. Y. Fu, from January 22 through May 31, 1985.
Raman Srinivasan, Smithsonian Predoctoral Fellow, University of Pennsylvania. "A Scientific and Historical Investigation of Aramulla Mirrors: A Case Study in Metal Technology," with W. Thomas Chase and Martha Goodway, from June 17 through August 10, 1985.
Richard Wilson, Smithsonian Postdoctoral Fellow. Assistant Professor of Art History, Rice University. "Problems in Connoisseurship: Ceramics and Paintings Attributed to Ogata Kenzan (1633-1743) in the Freer Gallery of Art," with Louise A. Cort, from June 1, 1985 through May 31, 1986.

COOPER-HEWITT MUSEUM

Albrecht, Thomas, Sidney and Celia Siegel Fellow, B.A. candidate, Brown University. Work and study in the Assistant Director's Office, with Harold Pfister, from June 10, 1985 to August 16, 1985.
Ameen, Souhad, M.A. candidate, Virginia Commonwealth University. Work and study in the Registrar's Office, with Cordelia Rose, from August 30, 1985 to October 31, 1985.
Berger, Laura, The Wooster School, Work and study in the Director's Office, with William Gaske, May 1, 1985 to June 30, 1985.
Brody, Barbara, M.A. candidate, New York University. Work and study in the Capital Campaign Office, with Richard Stainbrook, from July 23, 1985 to September 30, 1985.
Brostoff, Lynn, B.A., Institute of Fine Arts. Work and study in Paper Conservation and the Drawings and Prints Department, with Konstanze Bachmann, from February 7, 1985 to May 20, 1985.
Cire, Annette, M. A. candidate, University of Bonn. Work and study in the Director's Office, with Lisa Taylor, from February 25, 1985 to April 5, 1985.

Clarke, Kathryn, B.A. candidate, Colby College. Work and study in the Director's Office, with Lisa Taylor, from January 2, 1985 to January 31, 1985.

Connor, Mary Ellen, B.A., Wheaton College. Work and study in the Director's Office, with Lisa Taylor, from June 10, 1985 to August 16, 1985.

Deeley, Ann, B.A. candidate, University of Scranton. Work and study in the Capital Campaign Office, with Richard Stainbrook, from January 2, 1985 to January 31, 1985.

Fields, Paris, B.A. candidate, Sarah Lawrence College. Work and study in the Registrar's Office, with Cordelia Rose, from October 19, 1984 to January 31, 1985.

Foster, Rebecca, B.A. candidate, Williams College. Work and study in the Exhibitions Department, with Zette Emmons, from June 10, 1985 to August 16, 1985.

Gaardboe, Susan, B.A. candidate, New York University. Work and study in Textile Conservation, with Lucy Commoner, from January 22, 1985 to October 31, 1985.

Gessner, Barclay, B.A. candidate, Williams College. Work and study in the Programs Department, with Susan Yelavich, from June 10, 1985 to August 16, 1985.

Gillman, Sarah, B.A. candidate, Yale University. Work and study in the Publications Department, with Nancy Akre, from June 10, 1985 to August 16, 1985.

Haviland, Patricia, M.A., Iowa State University. Work and study in Textile Conservation, with Lucy Commoner, from January 2, 1985 to September 30, 1985.

Hirsch, Elizabeth, B.A., Rhode Island School of Design. Work and study in the Textiles Department, with Milton Sunday, from June 10, 1985 to August 16, 1985.

Lafond, John H., M.A. candidate, New York University. Work and study in the Exhibitions Department, with Dorothy Globus, from February 11, 1985 to May 30, 1985.

Larsen, Diana, B.A., University of British Columbia. Work and study in the Decorative Arts Department, with David McFadden, from January 23, 1985 to January 31, 1986.

Sideman, Luke, B.A., New York University. Work and study in the Registrar's Office, with Cordelia Rose, from June 10, 1985 to August 16, 1985.

Smith, Alexandra, B.A. candidate, The Hollins College. Work and study in the Drawings and Prints Department, with Elaine Dee, from January 2, 1985 to January 31, 1985.

Tedeschi, Christine, B.A. candidate, Rhode Island School of Design. Work and study in the Exhibitions Department, with Robin Parkinson, from January 2, 1985 to January 31, 1985.

Ueno, Takemi, Sidney and Celia Siegel Fellow, B.A. candidate, Harvard University. Work and study in the Wallcoverings Department, with Ann Dorfsman, from June 10, 1985 to August 16, 1985.

Vogel, Elaine, B.A., Indiana University. Work and study in the Public Information Department, with Isabelle Silverman, from September 5, 1985 to December 31, 1985.

Yatzeck, Tanya, Sidney and Celia Siegel Fellow, B.A. candidate, Beloit College. Work and study in the Drawings and Prints Department, with Elaine Dee, from June 10, 1985 to August 16, 1985.

Academic and Research Training Appointments

Hirshhorn Museum and Sculpture Garden

Nicholas Natanson, M.A. candidate, University of Iowa. Work and study with Dr. Judith Zilczer, Department of Painting and Sculpture, from June 19 through August 19, 1985.

Rebecca Zurier, Ph.D. candidate, Yale University. The Drawings of the Ash Can School, with Dr. Judith Zilczer, from April, 1985 through May, 1986

Internship and Other Student Appointments

Hirshhorn Museum and Sculpture Garden

Angela Adams, B.A., College of Wooster. Work and study with the Department of Painting and Sculpture, with Dr. Judith Zilczer and Cynthia Jaffee McCabe, from June 10 through August 16, 1985.

Lisa Burkhalter, B.A., Texas Christian University. Work and study in the Department of Painting and Sculpture, with Valerie Fletcher, from June 10 through August 16, 1985.

Audrey Davis, B.A. candidate, University of Virginia. Work and study in the Department of Education, with Teresia Bush, from June 10 through August 16, 1985.

Jennifer Frey, B.A., Stanford University. Work and study in the Department of Painting and Sculpture, with Phyllis Rosenzweig, from June 17 through August 23, 1985.

Dayna Johnson, B.A., University of Houston. Work and study in the Department of Education, with Edward P. Lawson, from June 17 through July 26, 1985.

Hannah Yi, A.B. candidate, Smith College. Work and study in the Department of Exhibits and Design, with Joe Shannon, from June 10 through August 16, 1985.

NATIONAL MUSEUM OF AFRICAN ART

Eli Bentor, Indiana University. Short-term Visitor, May 1985 to July 1985.
Blythe Follet-Colon, University of Connecticut. Graduate Fellow, June 1985 to August 1985.

Sharon Patton, University of Maryland. January 1985 to May 1985.

Elisha Renne, University of Minnesota. Short-term Visitor, June 1985 to August 1985.

NATIONAL MUSEUM OF AMERICAN ART

- Lisa Koenigsberg (Yale University), Pre-doctoral: "Professionalising Domesticity: American Women Writer's on Architecture, 1965-1917"; Sept. 1984-May 1985.
- Sandra L. Langer (University of South Carolina), Post-doctoral: "John Frederick Kensett, A Critical Study of His Life and Art"; June-November 1984.
- Karol Lawson (University of Virginia), Pre-doctoral: "The American Landscape in Painting and Prints, ca. 1600-1820"; Jan. 1985-Dec. 1985.
- J. Gray Sweeney (Grand Valley State College), Post-doctoral: "A Study of Thomas Cole's Iconographic and Stylistic Influence over Mid-nineteenth Century American Painting"; September 1984-Aug. 1985.
- Cecile Whiting (Stanford University), Pre-doctoral: "The American Painter's Response to Fascism, 1933-45"; June 1984-May 1985.
- Smithsonian Fellows, continuing appointments
- Richard Masteller (Whitman College), Post-doctoral, Visiting Scholar, "Satiric Form in the 1930s: Dissident Voices, Dissident Visions"; Sept.-Aug. 1985.
- Reginia Perry (Virginia Commonwealth University), Post-doctoral, Ford Foundation Fellowship, "A History of Black American Art, 1650-1984"; Aug.-July 1985.
- Martha Anderson (University of Maryland), Pre-doctoral: "The Indigenous Roots of New York Dada"; June 1985.
- Nancy Anderson (University of Delaware), Pre-doctoral: "Albert Bierstadt and the California Landscape Painters of the 1870s"; Dec. 1984-Aug. 1985.
- Sara Boehm (Bryn Mawr College), Pre-doctoral: "Seth Eastman's Illustrations for Henry Schoolcraft's Historical and Statistical Information Respecting the History, Condition and Prospects of the Indian Tribes of the United States"; Sept. 1985.
- Sara Parrott (George Washington University), Pre-doctoral: "Expatriates and Professionals: A Study of the Careers in Italy of American Women Writers and Artists Born Between 1810 and 1850"; Aug. 1984-Aug 1985.

Elizabeth Turner (University of Virginia), Pre-doctoral:
"American Artists in Paris, 1920-1929"; Dec. 1984-Aug. 1985.

Susan Rather (University of Delaware), Pre-doctoral: "Paul
Manship and Archaism in American Sculpture, 1900-1930";
Dec. 1984-Aug. 1985.

Elizabeth Tebow (University of Maryland), Pre-doctoral: "The
Mythical Imagination in American Painting of the Late
Nineteenth Century"; Sept. 1984.

University Interns

Kathryn Buttrick, The University of Virginia, September 7, 1984-
April 19, 1985. NMAA University Program.

Debra Harrison, Carnegie-Mellon University, September 7, 1984-
December 12, 1984. Special project in the Office of Museum
Programs.

Kim Kroeger, George Washington University, September 7, 1984-
April 19, 1985. NMAA University Program.

Cynthia Kundar, Pennsylvania State University, January 16, 1985-
May 15, 1985. Special project in the Office of Museum
Programs.

Gail Leeds, George Washington University, January 16, 1985-
April 19, 1985. Special project in the Office of Museum
Programs.

Jonathan Mann, The American University, September 7, 1984-
April 19, 1985. NMAA University Program.

Miguel Seco, Johns Hopkins University, January 16, 1985-
April 19, 1985. Special Project with the Assistant
Director for Museum Resources.

Julie Stein, The University of Virginia, September 7, 1984-
April 19, 1985. NMAA University Program.

Jason Wrenn, Howard University, January 16, 1985-April 19, 1985.
Special project split between the Office of Museum Programs
and the Smithsonian's Office of Telecommunications.
April 19, 1985.

Nancy Yeide, The American University, September 7, 1984-
December 12, 1985. NMAA University Program.

High School Interns:

Leah Gilliam, The Sidwell Friends School, Washington, D.C.,
September 7, 1984-December 12, 1984. Special project in
the Office of the Registrar.

Summer Interns:

Emma-Rose Barbar, University of East Anglia, Great Britain
June 10, 1985-July 29, 1985. Office of Museum Programs.

Marcie Campbell, Colby College, June 3, 1985-July 22, 1985.
Department of Design and Production.

Ana Soto Canino, Princeton University, June 3, 1985-July 22,
1985. Office of Museum Programs.

Elizabeth Chew, Yale University, June 3, 1985-July 22, 1985.
Office of the Director.

Patricia Freuh, University of Wisconsin-Madison, June 3, 1985-
July 22, 1985. Curatorial Division.

Janice Isemoto, University of California at Santa Barbara,
June 3, 1985-July 22, 1985. Curatorial Division.

Anita Saxon, Howard University, June 3, 1985-July 29, 1985.
Curatorial Division.

Laila Schulmeisters, Wellesley College, June 3, 1985-July 29,
1985. Department of Design and Production.

Alexandra Woods, Wellesley College, June 3, 1985-July 29, 1985.
Office of Research Support.

Interns
National Portrait Gallery

Clarissa Cantacuzene, Undergraduate, University of Virginia. Developed and compiled training materials for Education Aide program, with Harry Jackson, Education Department, from June 7, 1985 through July 22, 1985.

Denise Carty, Undergraduate, Smith College. Researched and wrote annotations for Peale Papers and participated in the preparation of manuscripts for publication, with Dr. Lillian Miller, Peale Papers, from August 22, 1985 through December 19, 1985.

Thomas H. Coolsen, Graduate work in art history. Updated files related to American Portraits, with Linda Thrift, Catalog of American Portraits, from June 18, 1985 through September 1, 1985.

Susan E. Davis, Graduate, University of Michigan. Conducted searches for Time magazine portraits privately owned and in other public collections, with Fred Voss, History Department, from June 3, 1985 through August 3, 1985.

Shannon M. Duffy, Undergraduate, Mount Holyoke College. Made curatorial records for most recent acquisition of Time magazine covers, with Fred Voss, History Department, from June 6, 1985 through August 23, 1985.

W. McNeill Eaton, Undergraduate, Smith College. Researched and edited manuscripts, with Dr. Lillian Miller, Peale Papers, from August 27, 1984 through December 3, 1984.

Susan S. Gindlin, Undergraduate, Smith College. Did collection related research on the lives of Robert Ball Hughes and Theobald Chartran, with Dr. Carolyn Carr, Assistant Director for Collections; researched biographical files for Broadcasting exhibition, with Amy Henderson, History Department; and researched nineteenth century American sculpture, with Dr. Ellen G. Miles, Office of the Curator, from August 1984 through January 24, 1985.

Robin E. Hall, Undergraduate, Hollins College. Served as technician in silk screen lab, with Alice Rodowsky Seegers, Department of Exhibits Design & Production, from January 1, 1985 through January 30, 1985.

Deborah Macanic Jones, Graduate Student, Howard University. Worked on portraits to be included for the exhibition, "The Portrait in America from 1700-1776," and worked on the portraits by Healy in the collection, with Dr. Ellen G. Miles, Office of the Curator, from September 24, 1984 through December 14, 1984 and July 1, 1985 through September 6, 1985.

Nichelle A. Lloyd, High School Student, School Without Walls. Researched office operations, learned how to give guided tours and staff information desk, with Harry Jackson, Education Department, from September 21, 1984 through May 30, 1985.

Christine A. Monsen, College Graduate in art history. Located portrait material for bibliography on portraiture, with Cecilia Chin, Library, from July 3, 1985 through September 5, 1985.

Lesley M. O'Malley, Undergraduate, Denison University. Assisted with dark room tasks, helped in studio and on-site, and with public relations photographs, with Eugene Mantie, Photo Lab, from June 25, 1985 through August 9, 1985.

Katherine L. Ormand, Undergraduate, University of Arizona. Conducted Education Department school programs and observed techniques of conservation, with Harry Jackson, Education Department, from September 4, 1984 through December 14, 1984.

National Portrait Gallery

Edward Bolling Ripley, Undergraduate, Emory and Henry College. Assisted in the Department of Design and Production, with Stephen di Girolamo, Design and Production, from May 28, 1985 through July 26, 1985.

Karen Rubenstein, Undergraduate, Smith College. Researched and helped to organize exhibition of American jurists, with Fred Voss, History Department, from August 22, 1985 through December 19, 1985.

Debra A. Seddon, Undergraduate, Cooper Union College. Assisted in Exhibition Production, with Anice Doak, Exhibits Office, from April 23, 1985 through August 30, 1985.

Karen E. Vance, Undergraduate, Howard University. Conducted Outreach Programs for high schools and senior citizens with Harry Jackson, Education Department, from February 11, 1985 through May 30, 1985.

Margaret Weinstein, Undergraduate, Wellesley College. Cataloged portrait data, conducted research, and answered inquiries, with Richard Doud, Catalog of American Portraits, from June 6, 1985 through August 9, 1985.

CONSERVATION ANALYTICAL LABORATORY

Ann Boulton, Postgraduate Conservation Intern, State University College at Buffalo, N.Y., Art Conservation Department. Special Projects in Objects Conservation, with Carol A. Grissom, from September 16, 1985 through September 15, 1986.

Julia M. Burke, Conservation Intern, University of Washington at Seattle. Work and Study in Textile Conservation, with Mary W. Ballard, from June 17, 1985 through September 27, 1985.

Veletta Canouts, Ph.D., Visiting Scholar, Southern Illinois University. Hopi Social Boundary Maintenance and Exchange Relationships, AD1300-1600, with Ronald L. Bishop, from September 1, 1985 through August 31, 1987.

Theresa M. Colamatteo, Conservation Intern, University of Wisconsin at Minneapolis. Work and Study in Textile Conservation, with Mary W. Ballard, from June 17, 1985 through September 27, 1985.

Julian Henderson, Ph.D., Postdoctoral Fellow in Materials Analysis, University of Bradford, United Kingdom, Analysis of Iron Age Glass from Magdalenska Gora, Northwestern Yugoslavia, with Jacqueline S. Olin, from October 1, 1984 through April 30, 1985.

D. Linn Kennedy, Conservation Intern, University of Maryland. Work and Study in Textile Conservation, with Mary W. Ballard, from July 15, 1985 through September 20, 1985.

Lana Poffenroth, Conservation Intern, University of Alberta, Edmonton, Alberta, Canada. Work and Study in Textile Conservation, with Mary W. Ballard, from July 15, 1985 through September 20, 1985.

Jane Sugarman, Conservation Intern, University of Delaware at Winterthur. Work and Study in Paper Conservation, with Timothy J. Vitale and Dianne van der Reyden, from September 16, 1985 through September 15, 1986.

Cornelius van Horne, Visiting Conservator, Training School of Restorers, Amsterdam, the Netherlands. Special projects in Furniture and Ethnographic Conservation, with Marc A. Williams and Carolyn L. Rose, from September 1, 1984 through July 31, 1985.

INTERNSHIP AND OTHER STUDENT APPOINTMENTS

OFFICE OF HORTICULTURE

David Steingrubey, Office of Horticulture Intern. Work and study in a plant collection greenhouse, with August A. Dietz IV, Greenhouse-Nursery Division from July 5, 1984 through September 4, 1985.

Jennifer Dimling, Office of Horticulture Intern, B.A. candidate, The Colorado College. Work and study in a plant collection greenhouse, with August A. Dietz, IV, Greenhouse-Nursery Division from September 14, 1985 through December 14, 1985.

Barbara Young, Office of Horticulture Intern, B.S. candidate, Gallaudet College. Work and study in a plant collection greenhouse and on museum grounds, with August A. Dietz IV and Kenneth Hawkins, Greenhouse-Nursery Division and Grounds Management Division from February 7, 1985 through May 9, 1985.

Mary Breeding, Office of Horticulture Intern, B.S. candidate, James Madison University. Work and study in a museum horticulture office, with Kenneth Hawkins, August A. Dietz IV and Kathryn Meehan, Greenhouse-Nursery Division, Grounds Management Division and Historic Horticulture Division from June 3, 1985 through August 16, 1985.

Monica Meehan, Office of Horticulture Intern and a Professional Training Program for Careers in the Floral Industry Trainee, B.S. candidate, University of Nebraska-Lincoln. Work and study in a museum horticulture office with Kenneth Hawkins, August A. Dietz IV, and Kathryn Meehan, Greenhouse-Nursery Division, Grounds Management Division and Historic Horticulture Division from May 28, 1985 through August 9, 1985.

Interns Placed by The Office of Museum Programs

National Museum of Natural History

Remi Adedayo, Museum of Natural History, Lagos, Nigeria
James An, Taiwan Museum
Biodun Aro, Museum of Natural History, Lagos, Nigeria
Roy Berlin, School of the Art Institute of Chicago
Steven Fondriest, Ohio State University
Joseph Keleher, Beloit College
Masashi Kimura
Teresa McGurvey, California University of Pennsylvania
Jessica Meltzer, Earlham College

National Museum of American History

Rebecca Nelson, Ohio Wesleyan University
Rita Organ, California College of Arts and Crafts
Lauren Clark, College of the Holy Cross
Andrea Giordano, University of Massachusetts
Judy Harper, Austin College
Barbara Harrick, College of William and Mary
Robert Hilton, University of Michigan Ann Arbor
Jane Horrocks, University of Maryland
Jedd Kensinger, James Madison University
Vivian Kim, University of California, Irvine
Karla Kirk
Yvonne Laboy, University of Maryland
Donna Martin, Smith College
Alice Mastrangelo, Franklin and Marshall College

National Portrait Gallery

Lesley O'Malley, Denison University
Thomas Coolsen

National Zoological Park

Irene Pollman

Hirshhorn Museum and Sculpture Garden

Stephanie Rachum, Israel Museum

National Air and Space Museum

Kelly Doucet, Gallaudet College

Office of Service and Protocol

Juliette Sartin
Grace Scarborough, Furman University
Ulrike Duenkesbuehler, University of Konstanz
Sara Mendelson, Wellesley College

Museum Shops

Francine Acker, Troyes University of Trade, France
Michelle Gerdy, Troyes University of Trade, France

Office of Public Affairs

Mary MacInnis, College of William and Mary
Jennifer Mearns, Texas Christian University

Office of Museum Programs

Mary McFarland, Hollins College
Meg Fowler, Georgetown University
Francine Furey, University of Scranton
Lorena Garmezy, Cornell University
Rachel Lerner, University of Michigan, Ann Arbor
Michael Judd, George Washington University

Resident Associates Program

Jeffrey McKibben, Georgetown University
Margaret Coaldrake, University of Leicester

Office of Folklife

Cynthia Moore
Nancy Darby, Montgomery College
Gretchen Frick, George Washington University
Frank Lepore, University of Maryland

Smithsonian Institution Libraries

Sylviane Ashworth, Bibliotheque de Documentation Intntl.

Smithsonian Press

Elizabeth Estes, University of the South

Smithsonian Institution Traveling Exhibitions Service

Lindsey Haines

Smithsonian Castle

Scott Hall

Office of Exhibits Central

Harry Haon, University of Oregon

SMITHSONIAN INSTITUTION ARCHIVES

Julie Hamman, B.A. candidate, Portland State University. Survey of Animal-related Records at the National Zoological Park, with William A. Deiss, from September 30 through December 10, 1985.

Catherine McGeehan, B.A. candidate, The George Washington University. Archival work on the Collected Letters on Ethnology and the Papers of Ernest P. Walker, with William A. Deiss, from June 3 through July 31, 1985.

Margaret Stevens, B.A., The University of Virginia. Work on the Photograph Survey Project, with Diane L. Vogt-O'Connor, from June 7 through September 30, 1985.

Donna Webber, B.A. The Massachusetts Institute of Technology Archives. Work on the SIBIS Automation System from April 8 through May 3, 1985.

Smithsonian Institution Traveling Exhibition Service Interns

Thereza Crowe, M.A. candidate, St. Andrews University, Edinburgh, Scotland. Conducted research with Donald McClelland for Views of Rome and Art From Our Time: Selections from the Olga Hirshhorn Collection from June 1985 through August 1985.

Cathy Griggs, B.A. candidate, George Washington University. Assisted in the research and selection of artifacts for the "hands-on" archaeology kit being developed by the Education Department from July 1985 through August 1985.

Lindsey Haines, B.A., 1984, University of California, Los Angeles. Aided with the research and coordination of the catalogue for Three Centuries of German Painting and Drawing; assisted Ann Singer and Ronald Geatz, Public Affairs Office, with the organization of the Cultural Attache Reception and updated the SITES mailing list; researched educational programs for Martha Cappelletti and Marjorie Share; from January 1985 through March 1985.

Wynne Harrison, B.A., 1985, Pennsylvania State University. Researched and developed education materials with Marjorie Share for Audubon: Science Into Art and Material Evidence: New Color Techniques in Handmade Furniture; conducted preliminary research on Community Industries of the Shakers from June 1985 through August 1985.

Emily Stern, B.A. candidate, Yale University. Assisted Betty Teller and Mary Bet Dobson with the exhibition Hollywood: Legend and Reality; prepared text and photographs for the brochure to accompany Ebla to Damascus: Art and Archaeology of Ancient Syria from June 1985 to August 1985.

INTERNSHIP AND OTHER STUDENT APPOINTMENTS

OFFICE OF FOLKLIFE PROGRAMS

Nancy Darby, B.A. candidate, Montgomery College, Maryland, with Dr. Richard Kurin, from May 21 through August 2, 1985.

Gretchen Frick, M.A. candidate, George Washington University, Washington, D.C., with Marjorie Hunt, from September 2 through October 15, 1985.

Louise Victoria Jeffredo, B.A. candidate, University of Southern California, with Alicia González, from June 10 through August 9, 1985.

Frank Lepore, B.A. candidate, University of Maryland, with Richard Derbyshire, from November 6, 1984 through May 3, 1985.

Cynthia Moore, B.A., Miami University, Ohio, with Dr. Peter Seitel, from October 29, 1984 through January 3, 1985.

Office of Museum Programs Visiting Professionals, 1985

El-Hussein Abou al-Atta, Greco-Roman Museum, Egypt
Hagura Adachi, Modern Art Museum of Kama Kura; Japan
Nayla Ali Al Khalifa, Ministry of Information and Culture, Bahrain
Juan Alvarez, Kenosha Public Museum, Wisconsin
Saphalya Amatya, Department of Archeology, Nepal
Mario Socorro Arras-Rodriguez, INBA, Chihuahua, Mexico
Seema Bhatt, World Wildlife Fund, New Delhi, India
Suhail S. Bisharat, Jordan National Gallery of Fine Arts, Jordan
Maria Elvira Bonila-Otoya, Gold Museum, Columbia
Paulo Brochado, Porto Allegre, Brazil
Cecilia Brugnini, Montevideo, Uruguay
Stella Butler, Greater Manchester Museum of Science and Industry, England
Sahib Khan Channo, Archives, Govt. of Sind, Pakistan
Yeshwant Chaudhary, Society of Industrial Designers, India
Wenhao Chou, National Museum of Natural Science; Taiwan
Nanette Clark, Afro-American Historical and Cultural Museum
Antonio Cordova, City of Bayamon, Puerto Rico
Audixford Coronel, Porto Allegre, Brazil
Janeen Costa, Utah Museum of Natural History
James Coulter, Glasgow Art Gallery and Museum, U. K.
Jan Davidson, Mountain Heritage Center, North Carolina
Dakoji Devraj, LaLit Kala Studios, New Delhi, India
Deborah Dunn, Bishop Museum, Hawaii
Mrs. Robert Dunne, California Academy of Sciences
J. Struan Ensor, Auckland Institute and Museum, New Zealand
Feisal A. H. Esmael, Egyptian Antiquities Organization, Egypt
Ragayah Eusoff, Bank Negara Malaysia
James Fajardo, Hearst San Simeon Historical Monument
Hanna Aly Farid, Kuwait National Museum, Kuwait

Graeme Farnell, Scottish Museum Council
 Wendy Fitch, Manitoba Museum of Man
 Eva Forgacs, Museum of Applied Arts, Hungary
 Gladys Edith Magdalen Fullman, Fiji Museum, Fiji
 Giuseppe Gambardella, Universita di Genova
 Tapan Ganguly, Natl. Council of Science Museums, India
 Joao Carlos Garcia, Observatorio Nacional, Brazil
 Annete Gibbs, Charlotte Brown Project, North Carolina
 Deborah Graham, Missouri Botanical Garden
 M. G. Grainger, Ministry of Works and Development, New Zealand
 Almeida Guarita, Dept. of Museums and Archives, Sao Paulo, Brazil
 Frans Haak, Groninger Museum, The Netherlands
 Andrea Hauenschield-Frank
 Stanley J. Hipwood, Los Alamos National Laboratory
 Maria Iacob, Council of Culture and Education, Romania
 Jacob Ikunyua, Kitale Museum, Kenya
 Elizabeth Jacob, National Museum of Natural History, India
 Marlene Jaffe, Textile Conservation Workshop, New York
 William Jeffries, Parliamentary Under-Secretary, New Zealand
 Somnuk Kaekrachang, Parliamentary Museum, Thailand
 Khader Ibrahim Salameh Khmour, Al-aqsa Library, West Bank/Jerusalem
 Dag Kjell Dahl, Oslo, Norway
 Yuko Kodama, Hokkaido Museum of Modern Art, Japan
 Andrew Kugfas, State Historic Preservation Office, Yap
 Antoine Landreau, Institut Supérieur des Carrières Artistiques
 Ang Kim Ling, Bank Negara Malaysia
 Hilde Lobel, Memling Museum, Belgium
 Patricia Lontoc, Barangay Manggahan, Philippines
 Peter Ludvigsen, Arbejdermuseet, Copenhagen, Denmark
 Richard MacLeod, U. S. Space Foundation, Colorado
 Maria Maldonado, Republican Bank, Columbia
 Maureen McDonough, Michigan State University
 Darryl McIntyre, Australian War Memorial
 Patsy McMillan, Klamath Falls Museum Complex
 Terence Measham, Australian National Gallery
 Jayashree Mohta, Birla Academy of Art and Culture
 Mohammed Mousli, Department of Antiquities, Syria
 Alessandra Mottola Molino, Museo Poldi Pezzoli, Italy
 Jose Munoz, USIS, Quito, Ecuador
 Ahmed Nabi-Khan, Aqaf Department, Punjab Govt., Pakistan
 Lilas Okita, Centre for Nigerian Cultural Studies, Nigeria
 Joyce Padem-Sing, New Amsterdam Museum, Suriname
 Javier Pava, Centro Nacional de Restauración, Colombia
 George Perry, Austin Nature Center, Texas
 Steven Pollock, British Museum, Natural History
 Harrison Prince, Red Mountain Museum, Alabama
 Dilip Ramade, Prince of Wales Museum, India
 Sharon Rao, The Gallery, Madras, India
 Renato Romoli-Martinez, Natl. Museum of Nat. Hist., Dominican Republic
 Barbara Rountree, Children's Hands On Museum, Alabama
 Archana Roy, Birla Academy of Art and Culture, India
 Keith Russell, Academy of Natural Sciences of Philadelphia
 Mohamed Saleh, Egyptian Museum, Egypt
 Kartikeya Sarabhai, Centre for Environmental Education, India
 Colleen Schafroth, Horner Museum, Oregon
 Johann-Karl Schmidt, Landsmuseum, Fed. Rep. of Germany

Catherine Scott, L. A. Childrens Museum
G. K. Sharotri, National Museum of Art, India
Yasuko Shimizo, Hokkaido Museum of Modern Art, Japan
Rayendra Shrestha, Natural History Museum, Nepal
Beverly Smalls, New Hanover County Museum, North Carolina
Rosalie Smith-McCrea, National Gallery of Jamaica
Christoph Stoelzl, Munich City Museum, Fed. Rep. of Germany
Diane Turner, Afro-American Historical and Cultural Museum
Mr. Wahyono, National Museum, Indonesia
Anne-Lise Walsted, Arbejdernuseet, Copenhagen, Denmark
Said Ahmed Warsama, ISERT, Djibouti
Kimberly Webber, University of Sydney, Australia
Susan Will, Fort Egbert, Eagle, Alaska
Denis Williams, Gog Walter Roth Museum, Guyana
David Wixted, Natl. Trust of Queensland, Australia
Dennis Zamora, Spanish Colonial History of Texas Project
Barbara Zucker, Illinois Cooperative Conservation Program

Appendix 5

Publications of the Smithsonian Institution Press in Fiscal Year 1985

GENERAL PUBLICATIONS

TRADE PUBLICATIONS

Aditi: The Living Arts of India. Dedication by Robert McC. Adams; Foreword by S. Dillon Ripley; Preface by Rajeev Sethi; Introduction by Pupul Jayakar. 280 pages, 71 color and 200 black-and-white illustrations, 1 map. Cloth: \$27.50; Paper: \$14.95. June 1985.

Ann Uhry Abrams. The Valiant Hero: Benjamin West and Grand-Style History Painting. 256 pages, 7 color and 142 black-and-white illustrations. Cloth: \$39.95; Paper: \$19.95. August 1985.

Esin Atil, W. T. Chase, and Paul Jett. Islamic Metalwork in the Freer Gallery of Art. 274 pages, 195 black-and-white illustrations. Paper: \$17.50. September 1985.

Pieter Bleeker. Atlas Ichtyologique des Indes Orientales Neerlandaises--Volume IV: Murenes, Symbranches et Leptocephales (Atlas of Fishes of the Dutch East Indies). 132 pages, 49 color plates. Cloth: \$50.00. May 1985.

Walter J. Boyne. Phantom in Combat. 176 pages, 269 black-and-white illustrations. Cloth: \$22.50. April 1985.

Beverly J. Cox and Denna Jones Anderson. Miguel Covarrubias Caricatures. With essays by Al Hirschfeld and Bernard F. Reilly, Jr.; Foreword by Alan Fern. 164 pages, 15 color and 87 black-and-white illustrations. Cloth: \$24.95; Paper: \$12.50. January 1985.

David Damas, editor. Handbook of North American Indians--Arctic: Volume 5. 862 pages, 579 black-and-white illustrations. Cloth: \$29.00. January 1985.

Howard Ensign Evans. The Pleasures of Entomology: Portraits of Insects and the People Who Study Them. 238 pages, 19 black-and-white illustrations. Paper: \$14.95. April 1985.

George Gurney. Sculpture and the Federal Triangle. Introduction by Joshua C. Taylor; Foreword by James M. Goode. 464 pages, 261 black-and-white illustrations. Cloth: \$39.95. August 1985.

Lynda Roscoe Hartigan. Sharing Traditions: Five Black Artists in Nineteenth-Century America. Foreword by Charles C. Eldredge. 120 pages, 13 color and 70 black-and-white illustrations. Paper: \$14.95. January 1985.

James R. Heintze. Scholars' Guide to Washington, D.C. for Audio Resources: Sound Recordings in the Arts, Humanities, and Social, Physical, and Life Sciences. With contributions by Trudi W. Olivetti, Woodrow Wilson International Center for Scholars. 396 pages. Cloth: \$29.95; Paper: \$15.00. May 1985.

Clarence L. "Kelly" Johnson with Maggie Smith. Kelly--More Than My Share of It All. Foreword by Brigadier General Leo Geary (U.S.A.F. Ret.). 210 pages, 22 black-and-white illustrations. Cloth: \$17.50. May 1985.

David B. Lellinger. A Field Manual of the Ferns and Fern-Allies of the United States and Canada. 446 pages, 402 color and 26 black-and-white illustrations. Cloth: \$45.00; Paper: \$29.95. September 1985.

Leah Lipton. A Truthful Likeness: Chester Harding and His Portraits. Foreword by Alan Fern. 196 pages, 13 color and 401 black-and-white illustrations. Paper: \$19.95. June 1985.

Robert McCarl. The District of Columbia Fire Fighters' Project: A Case Study in Occupational Folklife. Foreword by Thomas Vennum, Jr. 244 pages, 34 black-and-white illustrations. Paper: \$9.95. July 1985.

Marie C. Malaro. A Legal Primer on Managing Museum Collections. 366 pages. Cloth: \$29.95. August 1985.

Katherine Manthorne. Creation and Renewal: Views of Cotopaxi by Frederic Edwin Church. Foreword by Charles C. Eldredge; Introduction by Richard S. Fiske and Elizabeth Nielsen. 88 pages, 6 color and 52 black-and-white illustrations, 2 maps. Paper: \$14.95. March 1985.

Robert C. Mikesch and Osamu Tagaya. Moonlight Interceptor: The Story of Japan's "Irving" Night. 112 pages, 4 color and 132 black-and-white illustrations, 3 maps. Paper: \$9.95. June 1985.

Lon O. Nordeen, Jr. Air Warfare in the Missile Age. 266 pages, 112 black-and-white illustrations, 2 maps. Cloth: \$24.95. August 1985.

Claudia M. Oakes and Kathleen L. Brooks-Pazmany, compilers. Aircraft of the National Air and Space Museum. Third edition. 76 pages, 373 black-and-white illustrations. May 1985.

Nathan Reingold, editor. The Papers of Joseph Henry--Volume Five: The Princeton Years January 1841-December 1843. 500 pages, 246 line cuts, 13 portraits. Cloth: \$45.00. September 1985.

Peter T. Rohrbach and Lowell S. Newman. American Issue: The U.S. Postage Stamp, 1842-1869. 232 pages, 109 black-and-white illustrations. Cloth: \$19.95. December 1984.

Richard H. Stroud, editor. National Leaders of American Conservation. 432 pages. Paper: \$24.95. June 1985.

Sara D. Toney with the assistance of Sherryl K. Kohr and Deborah E. Corsi. Smithsonian Surprises. 96 pages, 75 color and 30 black-and-white illustrations. Paper: \$7.95. August 1985.

Nicholas Fox Weber, Mary Jane Jacob, and Richard S. Field. The Woven and Graphic Art of Anni Albers. Introduction by Lloyd E. Herman; Foreword by Anni Albers. 140 pages, 40 color and 88 black-and-white illustrations. Cloth: \$39.95; Paper: \$17.50. July 1985.

Nancy Wells-Gosling. Flying Squirrels: Gliders in the Dark. Foreword by Dorcas MacClintock. 128 pages, 79 black-and-white illustrations, 2 maps. Cloth: \$24.95; Paper: \$9.95. August 1985.

Alexander Wetmore, Roger F. Pasquier, and Storrs L. Olson. The Birds of the Republic of Panama--Part 4, Order Passeriformes, Suborder Passeres, Hirundinidae (Swallows) to Fringillidae (Finches). 670 pages, 1 color and 49 black-and-white illustrations. Cloth: \$29.95. December 1984.

Fred L. Whipple. The Mystery of Comets. 276 pages, 17 color and 119 black-and-white illustrations. Cloth: \$24.95; Paper: \$12.50. September 1985.

Trade Reprints

Roland W. Brown. Composition of Scientific Words. 882 pages. Cloth: \$24.95. December 1984.

Grace Rogers Cooper. The Sewing Machine: Its Invention and Development. Revised edition. 238 pages, 216 black-and-white illustrations. Cloth: \$27.50. July 1985.

John C. Ewers. The Horse in Blackfoot Indian Culture. 374 pages, 33 figures, 17 plates. Paper: \$15.00. June 1985.

William W. Fitzhugh and Susan A. Kaplan. Inua: Spirit World of the Bering Sea Eskimo. 295 pages, 8 color and 500 black-and-white illustrations, maps. Cloth: \$35.00; Paper: \$19.95. February 1985.

Paul A. Johnsgard. Hummingbirds of North America. 303 pages, 16 color and 75 black-and-white illustrations. Cloth: \$35.00. December 1984.

John Murdoch. Ethnological Results of the Point Barrow Expedition. 450 pages, 428 figures, 2 maps. Paper: \$19.95. March 1985.

Allan Needell, editor. The First Twenty-five Years in Space. 165 pages, 5 black-and-white illustrations. Cloth: \$12.50. November 1984.

Donald J. Ortner and Walter G. J. Putschar. Identification of Pathological Conditions in Human Skeletal Remains. 488 pages, 765 figures, 14 tables. Cloth: \$29.95. June 1985.

John J. Protopappas and Lin Brown, editors. Washington on Foot. Third Edition, revised. 224 pages, 95 black-and-white illustrations, 26 maps. Paper: \$4.95. June 1985.

Tom Simkin and Richard S. Fiske. Krakatau 1883--The Volcanic Eruption and Its Effects. 464 pages, 49 color and 139 black-and-white illustrations. Cloth: \$25.00; Paper: \$19.95. October 1984.

John R. Swanton. Indian Tribes of North America. 726 pages, 4 maps.
Paper: \$35.00 December 1984.

John R. Swanton. Final Report of the United States De Soto Commission.
400 pages, 12 maps, diagrams. Paper: \$19.95. April 1985.

Cyrus Thomas. Report of the Mound Explorations of the Bureau of
Ethnology. 742 pages, 41 black-and-white illustrations, 344 figures.
Paper: \$25.00. May 1985.

Stephen E. Weil. Beauty and the Beasts: On Museums, Art, the Law, and the
Market. 272 pages. Cloth: \$19.95; Paper: \$9.95. May 1985.

Frank H. Winter. Prelude to the Space Age--The Rocket Societies:
1924-1940. 222 pages, 52 black-and-white illustrations. Paper: \$15.00.
October 1984.

E. T. Wooldridge. Winged Wonders: The Story of the Flying Wings. 230
pages, 224 black-and-white illustrations. Paper: \$17.50. June 1985.

DIRECT-MAIL BOOKS

James S. Trefil. Space, Time, Infinity: The Smithsonian Views the
Universe. 256 pages, 257 color and 58 black-and-white illustrations.
Associates: \$19.95; Non-Associates: \$21.96; Trade: \$29.95. June 1985.

ANNUAL REPORTS

American Historical Association Annual Report 1983. 184 pages. January
1985.

Report of the Smithsonian Environmental Research Center October 1, 1983,
through September 30, 1984. 28 pages. July 1985.

Report of the Smithsonian Tropical Research Institute October 1, 1983,
through September 30, 1984. 38 pages, 2 black-and-white illustrations.
July 1985.

Smithsonian Year 1984. 694 pages, 62 black-and-white illustrations. May
1985.

BOOKS

Museum Shops

Official Guide to the Smithsonian Institution. 144 pages, 170 color and 17
black-and-white illustrations. Cloth: \$2.95. April 1985 (third printing).

National Air and Space Museum

National Air and Space Museum Research Report 1984. 218 pages, 17 color and 38 black-and-white illustrations, 3 figures, 13 tables, 4 maps. November 1984.

National Museum of Natural History

Microscopic Properties of Meteorites by G. Tschermak. 144 pages, 25 black-and-white illustrations. October 1984.

Office of Fellowships and Grants

Smithsonian Opportunities for Research and Study in History, Art, Science. 176 pages. September 1985.

BOOKLETS

Freer Gallery of Art

Eighth Presentation of the Charles Lang Freer Medal. 4 pages, 1 black-and-white illustration. May 1985.

James Smithson Society

James Smithson Society Invitation. 12 pages. June 1985.

James Smithson Society Dinner Program. 28 pages. September 1985.

National Museum of African Art

Education Programs and Resources 1985-1986. 16 pages, 6 black-and-white illustrations. September 1985.

National Museum of American Art

Barney Studio House Information Brochure (Revised). 2 pages, 7 black-and-white illustrations. February 1985.

National Museum of Natural History

The National Museum of Natural History: 75 Years in the New National Museum by Ellis L. Yochelson. 24 pages, 29 black-and-white illustrations. March 1985.

National Museum of Natural History/Natural Science Symposium Program. 4 pages, 4 black-and-white illustrations. February 1985.

National Portrait Gallery

The National Portrait Gallery (Revised). 12 pages, 1 color and 26 black-and-white illustrations. May 1985.

Office of Elementary and Secondary Education

Making Sense: Writing from Objects--A Smithsonian Approach. 8 pages, 4 black-and-white illustrations. November 1984.

Treaty of Paris: The Work of Peace. 43 pages, 1 color and 5 black-and-white illustrations. January 1985.

BROCHURES

National Museum of African Art

Igbo Arts: Community and Cosmos. 8 pages, 11 black-and-white illustrations. July 1985.

National Museum of American Art

National Museum of American Art (calendar of events). 2 pages, 12 black-and-white illustrations. December 1984.

Office of Elementary and Secondary Education

Intern 85. 6 pages, 7 black-and-white illustrations. November 1984.

Office of Equal Opportunity

Equal Opportunity Program of the Smithsonian Institution, Washington, D.C. 6 pages, 1 black-and-white illustration. August 1985.

How the Discrimination Complaint System Works at the Smithsonian Institution. 6 pages, 1 black-and-white illustration. June 1985.

Office of Membership and Development

Life-Income Gifts to the Smithsonian Institution: Pooled-Income Fund. 6 pages, 3 black-and-white illustrations. March 1985.

Office of Museum Programs

On-Site Workshop Program. 4 pages. August 1985.

Smithsonian Institution Libraries

Panorama of India. 8 pages, 1 black-and-white illustration. June 1985.

Smithsonian Institution Press

Archives of American Art Journal Circular. 4 pages, 3 black-and-white illustrations. July 1985.

Smithsonian Tropical Research Institute

Oportunidades de Investigacion en el Tropico: Smithsonian Tropical Research Institute. 6 pages, 1 color and 2 black-and-white illustrations. March 1985.

Office of Museum Programs

National Museum Act Guidelines for 1986 Grant Programs. 28 pages. June 1985.

Office of Personnel Administration

Employment at the Smithsonian Institution. 16 pages, 8 black-and-white illustrations. June 1985.

Smithsonian Institution Press

American Popular Song: Six Decades of Songwriters and Singers (Reprint). 52 pages, 104 black-and-white illustrations. June 1985.

First Ladies' Hall by Margaret Brown Klapthor (Reprint). 24 pages, 9 color and 48 black-and-white illustrations. January 1985.

Official White House China: 1918 to the Present by Margaret Brown Klapthor. 26 pages, 18 color and 2 black-and-white illustrations. November 1984.

EXHIBITION CATALOGS

Freer Gallery of Art

Islamic Metalwork in the Freer Gallery of Art by Esin Atil, W. T. Chase, and Paul Jett. 274 pages, 195 black-and-white illustrations. September 1985.

Hirshhorn Museum and Sculpture Garden

A New Romanticism: Sixteen Artists from Italy by Howard N. Fox. 124 pages, 46 color and 15 black-and-white illustrations. September 1985.

Representation Abroad by Joe Shannon. 222 pages, 38 color and 138 black-and-white illustrations. May 1985.

Selections from the Collection of Marion and Gustave Ring. 64 pages, 50 color and 1 black-and-white illustrations. September 1985.

National Air and Space Museum

Aircraft of the National Air and Space Museum. 212 pages, 1 color and 342 black-and-white illustrations. June 1985.

National Museum of American Art

Creation and Renewal: Views of Cotopaxi by Frederic Edwin Church by Katherine Manthorne. Foreword by Charles C. Eldredge; Introduction by Richard S. Fiske and Elizabeth Nielsen. 88 pages, 6 color and 52 black-and-white illustrations, 2 maps. March 1985. (Distributed by SI Press)

The Martha Jackson Memorial Collection. 114 pages, 1 color and 137 black-and-white illustrations. June 1985.

Sharing Traditions: Five Black Artists in Nineteenth-Century America by Lynda Roscoe Hartigan. Foreword by Charles C. Eldredge. 120 pages, 13 color and 70 black-and-white illustrations. January 1985. (Distributed by SI Press)

National Portrait Gallery

Joseph Wright: American Artist, 1756-1793 by Monroe H. Fabian. 160 pages, 8 color and 49 black-and-white illustrations. April 1985.

Miguel Covarrubias Caricatures by Beverly J. Cox and Denna Jones Anderson. 164 pages, 15 color and 87 black-and-white illustrations. November 1984.

EXHIBITION CHECKLISTS

National Museum of American Art

Alice Pike Barney: Pastel Portraits from Studio House by Jean Lewton. 8 pages, 5 black-and-white illustrations. November 1984.
The Woven and Graphic Art of Anni Albers. 6 pages, 8 black-and-white illustrations. June 1985.

FLYERS

Freer Gallery of Art

Islamic Metalware. 2 pages. September 1985.

National Air and Space Museum

Space Shuttle (Study Print). 2 pages, 1 black-and-white illustration. September 1985.

Office of Horticulture

Trees of Christmas. 6 pages, 1 black-and-white illustration, 2 maps. December 1984.

Smithsonian Institution Press

Smithsonian Institution Press Organization Chart. 1 page. December 1984.

POSTERS

National Museum of American Art

Continuing Traditions: A Festival of Afro-American Arts. 2 pages, 1 color and 10 black-and-white illustrations. January 1985.

Office of Fellowships and Grants

Rockefeller Foundation Residency Program in the Humanities 1985-1986. 2 pages. October 1984.

Fellowships in Residence at the Smithsonian Institution. 1 page, 1 black-and-white illustration. August 1985.

Rockefeller Foundation Residency Program in the Humanities 1986-1987. 2 pages. August 1985.

INVITATIONS

Freer Gallery of Art

Eighth Presentation of the Charles Lang Freer Medal. 1 page. May 1985.

James Smithson Society

James Smithson Society (Invitation to join). 12 pages, 1 black-and-white illustration. November 1984.

National Museum of American Art

The Afro-American Artist in the Nineteenth Century: Darktown Strutters' Ball. 2 pages. January 1985.

Architecture in Silver. 1 page, 1 color illustration. June 1985.

Forum '85: A Question of Place. 5 pages. January 1985.

Homage to Franz Kline: Photographs by Aaron Siskind. 2 pages. November 1984.

LIFE--The Second Decade, 1946-1955: Years of Challenge, Years of Hope. 6 pages, 1 black-and-white illustration. January 1985.

The Martha Jackson Memorial Collection. 6 pages. May 1985.

Sharing Traditions: Five Black Artists in Nineteenth-Century America. 2 pages. November 1984.

The Woven and Graphic Art of Anni Albers. 6 pages, 2 black-and-white illustrations. May 1985.

Smithsonian Institution Libraries

Manuscript of the Dibner Collection (reception invitation). 4 pages, 1 black-and-white illustration. August 1985.

Panorama of India Exhibition (reception invitation). 1 page. July 1985.

MISCELLANEOUS

Office of Elementary and Secondary Education

Art to Zoo

Let's Go to the Smithsonian

Office of Fellowships and Grants

Directory of Fellows (cover). 2 pages, 1 black-and-white illustration. August 1985.

Office of Public Affairs

Smithsonian Institution Research Reports, Number 43, Autumn 1984. 8 pages, 13 black-and-white illustrations. October 1984.

Smithsonian Institution Archives

Guide to the Papers of Charles P. Alexander, circa 1870-1982. 1 page. February 1985.

Smithsonian Institution Libraries

Robert E. Silberglied Bookplate. October 1984.

SERIES - PUBLICATIONS

Smithsonian Contributions to Botany

55. Patricia G. Palmer, Susan Gerbeth-Jones, and Susan Hutchison. "A Scanning Electron Microscope Survey of the Epidermis of East African Grasses, III." 136 pages, 98 black-and-white plates. May 1985.
56. Otto Huber and John J. Wurdack. "History of Botanical Exploration in Territorio Federal Amazonas, Venezuela." 83 pages, 2 tables, 10 maps. November 1984.
57. Tatiana Sendulsky and Thomas R. Soderstrom. "Revision of the South American Genus Otachyrium (Poaceae: Panicoideae)." 29 pages, 7 black-and-white figures. December 1984.
59. Fernando O. Zuloaga and Thomas R. Soderstrom. "Classification of the Outlying Species of New World Panicum (Poaceae: Paniceae)." 63 pages, 25 black-and-white figures, 2 tables. May 1985.

Smithsonian Contributions to the Marine Sciences

24. Brian Kensley. "The Atlantic Barrier Reef Ecosystem at Carrie Bow Cay, Belize, III: New Marine Isopoda." 81 pages, 48 black-and-white figures. November 1984.
25. R. Craig Shipp, Stephanie A. Staples, and Walter H. Adey. "Geomorphologic Trends in a Glaciated Coastal Bay: A Model for the Maine Coast." 76 pages, 44 black-and-white figures, 3 tables. June 1985.
26. Stephen J. Culver and Martin A. Buzas. "Distribution of Recent Benthic Foraminifera off the North American Pacific Coast from Oregon to Alaska." 234 pages, 139 black-and-white figures, 2 tables. August 1985.

Smithsonian Contributions to Paleobiology

57. Jessica A. Harrison. "Giant Camels from the Cenozoic of North America." 29 pages, 17 black-and-white figures. June 1985.

Smithsonian Contributions to Zoology

396. Karl V. Krombein. "Biosystematic Studies of Ceylonese Wasps, XIV: A Revision of Carinostigmus Tsuneki (Hymenoptera: Sphecoidea: Pempredonidae)." 37 pages, 52 black-and-white figures. October 1984.
399. Arthur H. Clarke. "The Tribe Alasmidontini (Unionidae: Anodontinae), Part II: Lasmigona and Simpsonaias." 75 pages, 22 black-and-white figures, 14 tables. March 1985.

402. W. Ronald Heyer. "Variation, Systematics, and Zoogeography of Eleutherodactylus guentheri and Closely Related Species (Amphibia: Anura: Leptodactylidae)." 42 pages, 25 black-and-white figures, 20 tables. November 1984.
403. Richard S. Houbbrick. "Genus Clypeomorus Jousseaume (Cerithiidae: Prosobranchia)." 131 pages, 62 black-and-white figures, 33 tables. April 1985.
404. Karl V. Krombein and Sandra Shanks Gingras. "Revision of North American Liris Fabricius (Hymenoptera: Sphecoidea: Larridae)." 96 pages, 49 black-and-white figures. December 1984.
405. John M. Burns. "Evolutionary Differentiation: Differentiating Gold-banded Skippers--Autochthon cellus and More (Lepidoptera: Pyrginae)." 38 pages, 90 black-and-white figures, 3 tables. December 1984.
406. Wayne N. Mathis and Kumar D. Ghorpade. "Studies of Parydrinae (Diptera: Ephydriidae), I: A Review of the Genus Brachydeutera Loew from the Oriental, Australian, and Oceanic Regions." 25 pages, 27 black-and-white figures. February 1985.
407. Richard C. Froeschner. "Synopsis of the Heteroptera or True Bugs of the Galapagos Islands." 84 pages, 43 black-and-white figures, 1 table. May 1985.
408. Louis S. Kornicker. "Sexual Dimorphism, Ontogeny, and Functional Morphology of Rutiderma hartmani Poulsen, 1965 (Crustacea: Ostracoda)." 28 pages, 20 black-and-white figures. January 1985.
409. Janet R. Gomon and Robert H. Gibbs. "Taxonomy and Distribution of the Stomioid Fish Genus Eustomias (Melanostomiidae), II: Subgenus Piradiostomius New Subgenus." 58 pages, 21 black-and-white figures, 5 tables. June 1985.
410. Wayne N. Mathis. "Studies of Parydrinae (Diptera: Ephydriidae), II: A Revision of the Shore Fly Genus Pelinoides Cresson." 46 pages, 59 black-and-white figures. May 1985.
411. Fenner A. Chace, Jr. "The Caridean Shrimps (Crustacea: Decapoda) of the Albatross Philippine Expedition, 1907-1910, Part 3: Families Thalassocarididae and Pandalidae." 144 pages, 62 black-and-white figures. August 1985.
412. Thomas H. Fraser and Ernest A. Lachner. "A Revision of the Cardinalfish Subgenera Pristiapogon and Zoramia (Genus Apogon) of the Indo-Pacific Region (Teleostei, Apogonidae)." 47 pages, 20 black-and-white figures, 6 tables. May 1985.
414. Karl V. Krombein. "Biosystematic Studies of Ceylonese Wasps, XV: A Monograph of the Alyssoninae, Nyssoninae, and Gorytinae (Hymenoptera: Sphecoidea: Nyssonidae)." 43 pages, 39 black-and-white figures. July 1985.

417. S. Dillon Ripley and Bruce Beehler. "Rails of the World: A Compilation of New Information, 1975-1983 (Aves: Rallidae)." 28 pages, 2 figures. September 1985.

Smithsonian Studies in Air and Space

6. Claudia M. Oakes. "United States Women in Aviation 1930-1939." 70 pages, 71 black-and-white figures. August 1985.

Smithsonian Folklife Studies

4. Robert S. McCarl. "The District of Columbia Fire Fighters' Project: A Case Study in Occupational Folklife." 241 pages, frontispiece, 33 black-and-white figures. June 1985.

Appendix 6

Publications of the Staff of the Smithsonian Institution and Its Subsidiaries in Fiscal Year 1985

NATIONAL AIR AND SPACE MUSEUM

Office of the Director

Boyne, W. J. Phantom in Combat. United Kingdom: Jane's Publishing Company, Limited, 1985.

- _____. "Howell Miller Zeta." Air Line Pilot 53(10) (1984).
- _____. "General Aviation G.A. 43." Air Line Pilot 53(11) (1984).
- _____. "Vultee XP-54." Air Line Pilot 53(12) (1984).
- _____. "Deeble Double-Action Special." Air Line Pilot 54(1) (1985).
- _____. "Chamberlin C-82." Air Line Pilot 54(2) (1985).
- _____. "De Havilland DH-4." Air Line Pilot 54(3) (1985).
- _____. "Fairchild XAT-13." Air Line Pilot 54(4) (1985).
- _____. "Spratt Controlwing." Air Line Pilot 54(5) (1985).
- _____. "Wheelair." Air Line Pilot 54(6) (1985).
- _____. "Detroit Lockheed XP-900." Air Line Pilot 54(7) (1985).
- _____. "Martin XB-48." Air Line Pilot 54(8) (1985).
- _____. "Ackerman Tailless." Air Line Pilot 54(9) (1985).
- _____. "Blame It On Women." AOPA Pilot 27(10) (1984).
- _____. "Forever Used." AOPA Pilot 27(11) (1984).
- _____. "Living History." AOPA Pilot 27(12) (1984).
- _____. "The Cutting Edge." AOPA Pilot 28(1) (1985).
- _____. "Stretching Exercises." AOPA Pilot 28(2) (1985).
- _____. "Armchair Aviation." AOPA Pilot 28(3) (1985).
- _____. "Air and Space." AOPA Pilot 28(9) (1985).
- _____. "America's DH-4." British Aerospace Quarterly, vol. 7, no. 2, Summer 1985.

Office of the Associate Director for Research

Hanle, P. A. "Report of the Associate Director for Research: The National Air and Space Museum and Scholarship." In National Air and Space Museum Research Report 1984, pp. 15-20. Washington, D.C.: Smithsonian Institution Press, 1984.

_____. "Congress and the Large Space Telescope." In National Air and Space Museum Research Report 1984, pp. 85-95. Washington, D.C.: Smithsonian Institution Press, 1984.

_____. "Astronomers, Congress, and the Large Space Telescope." Sky & Telescope, pp. 300-305, April 1985.

Smith, R. W. "Studies of the Milky Way 1850-1930: Some Highlights." In The Milky Way Galaxy by H. van Woerden, R. J. Allen and B. Barton, pp. 43-58. Dordrecht: D. Reidel 1985.

_____. "Heavenly Motions." In The Times Higher Educational Supplement, p. 19. November 26, 1984.

_____. Review of Eddington by S. Chandrasekhar. Physics Today, 38 (1985):88-89.

_____. Review of Frame of the Universe by F. Durham and R. D. Purrington. Isis, 715 (1984):593.

_____. Review of Glimpsing an Invisible Universe by Richard Hirsh. Journal for the History of Astronomy, 16 (1985):142-143.

Smith, R. W. with Tatarewicz, J. N. "Replacing a Technology: The Large Space Telescope and CCD's." In Proceedings of the IEEE 73 (1985):1221-1235.

Office of Aerospace Education and Publications

National Air and Space Museum Publications Catalogue. Describes the publications produced by the museum, plus videodiscs and educational filmstrips.

National Air and Space Museum Research Report 1984. Contributions by NASM staff and visiting scholars. Washington, D.C.: Smithsonian Institution Press, 1984.

Office of Public Affairs and Museum Services

Cipalla, R. "The Video-Disk Advantage." History News 40(8) (1985). Women in Aviation and Space. A brochure describing the contributions of women in the fields of air and space.

National Air and Space Museum Events. Published monthly, this calendar highlights lectures, films and exhibition openings and includes feature articles each month relating to air and space.

Center for Earth and Planetary Studies

Andre, C. G. "Orbital Multispectral Thermal Infrared Data: Geological Applications." In National Air and Space Museum Research Report 1984, pp. 149-59. Washington, D.C.: Smithsonian Institution Press, 1984.
_____. [Summary]. "Detection of Regional Structural Features in Sedimentary Basins Using Thermal Infrared Thematic Mapper Data." In International Symposium on Remote Sensing of Environment, Fourth Thematic Conference: Remote Sensing for Exploration Geology, p. 81. Environmental Research Institute of Michigan, 1984.

Andre, C. G. and Blodget, H. W. "Thermal IR Satellite Data for the Study of Tectonic Features." Geophysical Research Letters 11 (1984):983-86.

Andre, C. G., Blodget, H. W., and Minor, T. B. [Abstract]. "Surface Composition Mapping with Thermal IR Data From the Nimbus-5 and NOAA-7 Satellites." In Geological Society of America GSA Abstracts with Programs 16 (1984):430.

Andre, C. G., Blodget, H. W., and Marcell, R. F. [Abstract]. "Volcanism and Faulting Related to the Red Sea/Gulf of Aden Tectonism: The Thermal Infrared Satellite View." EOS 66 (1985):377.

_____. [Abstract]. "Geologic Applications of Thermal Infrared Data From the NIMBUS-5, NOAA-7 and Landsat 4 Satellites." In NOAA Envirosat-85 Meeting: Hydrologic and Land Sciences Applications of NOAA Polar-Orbiting Satellite Data, p. 19. Washington, D.C.: September 1985.

Blodget, H. W., Andre, C. G., and Marcell, R. F. [Summary]. "Comparative Assessment of Multispectral Satellite Thermal Infrared Data for Rock Discrimination in Basement, Volcanic and Sedimentary Terrains." In International Symposium on Remote Sensing of Environment, Fourth Thematic Conference: Remote Sensing for Exploration Geology, p. 57. Environmental Research Institute of Michigan, 1984.

- Jacobberger, P. A. [Abstract]. "Morphology and Changes in Surface Hydrology in the Upper Inland Niger Delta, Mali." In Geological Society of America Abstracts with Programs 16 (1984):549.
- _____. [Abstract]. "Changes in Surface Hydrology in the Upper Inland Niger Delta of Mali as a Function of Drought." EOS 66 (1985):262.
- Maxwell, T. A., and Watters, T. R. "Photogeology of Structural Landforms in the Tharsis Region of Mars." In National Air and Space Museum Research Report 1984, pp. 135-47. Washington, D.C.: Smithsonian Institution Press, 1984.
- Maxwell, T. A., Frey, H., and Semeniuk, A. [Abstract]. "Geomorphology and Evolution of the Ancient Cratered Terrain - Smooth Plains Boundary of Mars." In Geological Society of America Abstracts with Programs 16 (1984):586.
- Maxwell, T. A. and Corrigan, J. D. [Abstract]. "Investigations of the Mars Cratered Terrain - Smooth Plains Boundary in the Eastern Equatorial Region." In Reports of Planetary Geology Program - 1984, pp. 350-51. NASA TM-87563, 1985.
- Maxwell, T. A. and Watters, T. R. [Abstract]. "The Mars Ancient Cratered Terrain - Smooth Plains Boundary: Implications of Viking Color Data for the Amenthes Region." In Lunar and Planetary Science XVI, pp. 526-27. Houston: The Lunar and Planetary Institute, 1985.
- Watters, T. R. and Maxwell, T. A. [Abstract]. "Mechanisms of Basalt-plains Ridge Formation." In Reports of Planetary Geology Program - 1984, pp. 479-81. NASA TM-87563, 1985.
- Watters, T. R. [Abstract]. "Fold Model for Ridges of the Tharsis Region of Mars." In Lunar and Planetary Science XVI, pp. 897-98. Houston: The Lunar and Planetary Institute, 1985.

Department of Aeronautics

- Brooks-Pazmany, K. L. and Oakes, C. M., comp. Aircraft of the National Air and Space Museum (3rd ed. rev.) Washington, D.C.: Smithsonian Institution Press, 1985.
- Crouch, T. D. "Flight and the Founding Fathers." National Air and Space Museum Research Report 1984, pp.27-46. Washington, D.C.: Smithsonian Institution Press, 1984.
- _____. "Taking to the Air." Science 84 5(11)(1984).
- _____. "Wingding at Oshkosh." National Geographic Traveler 2(2)(1985).
- _____. "A Practical Flying Machine: The 1905 Wright Flyer." Timelines (Summer)(1985).
- Davies, R. E. G. "Marcel Bouilloux-Lafont: Airline Pioneer Extraordinaire." National Air and Space Museum Research Report 1984, pp. 47-62. Washington, D.C.: Smithsonian Institution Press, 1984.
- Grosz, P. M. "Some Reflections on Austro-Hungarian Aviation in World War I." National Air and Space Museum Research Report 1984, pp. 63-77. Washington, D.C.: Smithsonian Institution Press, 1984.
- Mikesh, R. C. The Great Book of World War II Airplanes. Tokyo: Bonanza Books, 1984.
- _____. "Veteran From Vietnam." Air Combat (Winter)(1984).
- Mikesh, R. C. and Osamu, T. Moonlight Interceptor: Japan's "Irving" Night Fighter. Famous Aircraft of the National Air and Space Museum Series, no. 8. Washington, D.C.: Smithsonian Institution Press, 1985.

- Oakes, C. M. United States Women in Aviation 1930-1939. Smithsonian Studies in Air and Space, no. 6. Washington, D.C.: Smithsonian Institution Press, 1985.
- Schneide, K. S. and Grosz, P. M. "Cockburn-Lange Hoax Exposed." World War I Aeroplanes. Part I, 102(December)(1984). Part II, 103(February)(1985).
- van der Linden, F. R. and Winter, F. "Out of the Past." Aerospace America. (Monthly Column).

Department of Space Science and Exploration

- Collins, M. J. [with S. G. Brush and H. E. Landsberg] The History of Geophysics and Meteorology: An Annotated Bibliography. New York: Garland Publishing, Inc., 1985.
- DeVorkin, D. H. "Stars: Augmenting a National Collection in Space Astronomy." In National Air and Space Museum Research Report, 1984, pp. 169-172. Washington, D.C.: Smithsonian Institution Press, 1985.
- _____. "Electronics in Astronomy: Early Applications of the Photoelectric Cell and Photomultiplier for Studies of Point Source Celestial Phenomena." In Proceedings of the IEEE vol. 73, no. 7 (July, 1985):1205.
- DeVorkin, D. H. and Collins, M. J. Space Astronomy Oral History Project Catalog. Washington, D.C.: National Air and Space Museum, 1985.

NATIONAL MUSEUM OF NATURAL HISTORY

Department of Anthropology

- Adovasio, J. M., and Andrews, R. L. Basketry and Miscellaneous Perishable Artifacts from Walpi Pueblo, Arizona. Introduction to the Walpi Archaeological Project by E. Charles Adams. Edited by R. C. Carlisle. Ethnology Monographs, no. 7. Pittsburgh.
- Adovasio, J. M.; Carlisle, R. C.; Cushman, K. A.; Donahue, J.; Guilday, J. E.; Johnson, W. C.; Lord, L.; Parmalee, P. W.; Stuckenrath, R.; and Wiegman, P. "Paleoenvironmental Reconstruction at Meadowcroft Rockshelter, Washington County, Pennsylvania." In Environments and Extinctions: Man in the Late Glacial North America (1985). Edited by J. I. Mead and D. J. Meltzer. Peopling of the America Series, Center for the Study of Early Man. Orono: University of Maine.
- Adovasio, J. M.; Boldurian, A. T.; and Carlisle, R. C. "Archaeological Research Activities of the University of Pittsburgh in 1984." Current Research in the Pleistocene 2 (1985): 3-5.
- Albanese, John P. "Geology of the Dead Indian Creek Site." In The Dead Indian Creek Site: An Archaic Occupation in the Absaroka Mountains of Northwestern Wyoming. Edited by George C. Frison and Danny N. Walker. Wyoming Archaeologist 27 (1984): 101-110.
- _____. "Geological Investigation at 48 FR 1398." In Archaeological Salvage at 48 FR 1398: The Castle Gardens Access Road Site, Fremont County, Wyoming. Edited by Danny N. Walker and Lawrence C. Todd. Occasional Papers on Wyoming Archaeology, no. 2 (1984): 65-74. Laramie: Office of the Wyoming State Archaeologist.
- Andrews, R. L.; Adovasio, J. M.; and Carlisle, R. C. "Perishables from Dirty Shame Rockshelter, Malheur County, Oregon." University of Oregon Anthropological Papers, no. 34 (1985). Eugene, Oregon.
- Angel, J. Lawrence. "Variation in Estimating Age at Death of Skeletons." Collegium Anthropologicum 8 (2)(1984): 163-167.
- _____. "The Forensic Pathologist's Examination." The Pathologist 39 (5)(1985).
- Arnoldi, Mary Jo. "The Artistic Heritage of Somalia." African Arts 27 (4)(August 1984): 24-33 (notes, 93). To be reprinted as the Introductory Essay in Somalia in Word and Image. Bloomington, Indiana: Indiana University Press.
- Bentley, Gillian R. "Hunter-Gatherer Energetics and Fertility: A Reassessment of the !Kung San." Human Ecology 13 (1985): 79-109.

- Berinstein, Ava. "Evidence for Multiattachment in K'ekchi Mayan." Outstanding Dissertations in Linguistics (1985). New York: Garland Publishing.
- Brooks, Alison S. "The Tangled Wing: Biology and Human Destiny." Anthro-Notes 6 (3)(1984): 4-6.
- _____. "San Land-use Strategies, Past and Present: Implications for Southern African Prehistory." In Frontiers: Southern African Archaeology Today (1984): 40-52. Edited by M. Hall, et al. Cambridge Monographs in African Archaeology 10, BAR International Series 207. Oxford.
- _____. "South African Director Meets Noble Savage." Anthro-Notes 7 (1)(1985): 5-6.
- Brooks, Alison S.; Gelburd, Diane E.; and Yellen, John E. "Food Production and Culture Change Among the !Kung San: Implications for Prehistoric Research." In From Hunters to Farmers: The Causes and Consequences of Food Production in Africa (1984): 293-310. Edited by J. Desmond Clark and Steven A. Brandt. Berkeley: University of California Press.
- Burch, Ernest S., Jr., ed. "The Central Yupik Eskimos." Etudes/Inuit/Studies 8 (1984). Supplemental Issue.
- _____. "The Central Yupik Eskimos: An Introduction." Etudes/Inuit/Studies 8 (1984): 3-19. Supplemental Issue.
- _____. "Kotzebue Sound Eskimo." In Handbook of North American Indians. Edited by William C. Sturtevant. Arctic 5 (1984): 303-319. Edited by David Damas. Washington, D.C.: Smithsonian Institution Press.
- _____. "The Land Claims Era in Alaska." In Handbook of North American Indians. Edited by William C. Sturtevant. Arctic 5 (1984): 657-661. Edited by David Damas. Washington, D.C.: Smithsonian Institution Press.
- Cheek, Annetta L.; Cheek, Keel; and Cheek, Bennie C. "Value Conflicts in Osteo-Archaeology." In Ethics and Values in Archaeology (1984): 194-207. Edited by Ernestine L. Green. New York: The Free Press.
- Clark, Donald W., and Goddard, R. H. Ives III. "Synonymy." In "Pacific Eskimo: Historical Ethnography." Handbook of North American Indians. Edited by W. Sturtevant. In Arctic 5 (1984)[1985]: 195-196. Edited by David Damas. Washington, D.C.: Smithsonian Institution Press.
- Cordova, Fred. "Filipinos: Forgotten Asian Americans, a Pictorial Essay/1763-circa-1963" (1983). Dubuque, Iowa: Kendall/Hunt Publishing Co.

- Crocker, William H. "The Legend of the Sun and the Moon." In Folk Literature of the Gê Indians 2: 17-32. Edited by J. Wilbert and K. Simoneau. UCLA Latin American Studies 58. Los Angeles: UCLA Latin American Center Publications.
- _____. "The Legend of the Great Cotton Boll." In Folk Literature of the Gê Indians 2: 50-52. Edited by J. Wilbert and K. Simoneau. UCLA Latin American Studies 58. Los Angeles: UCLA Latin American Center Publications.
- _____. "Awkêê." In Folk Literature of the Gê Indians 2: 97-106. Edited by J. Wilbert and K. Simoneau. UCLA Latin American Studies 58. Los Angeles: UCLA Latin American Center Publications.
- _____. "The Myth of Kruwapu." In Folk Literature of the Gê Indians 2: 195-203. Edited by J. Wilbert and K. Simoneau. UCLA Latin American Studies 58. Los Angeles: UCLA Latin American Center Publications.
- _____. "The Story of a Woman Shaman During a Cakamekra War." In Folk Literature of the Gê Indians 2: 354-356. Edited by J. Wilbert and K. Simoneau. UCLA Latin American Studies 58. Los Angeles: UCLA Latin American Center Publications.
- _____. "Pep." In Folk Literature of the Gê Indians 2: 356-358. Edited by J. Wilbert and K. Simoneau. UCLA Latin American Studies 58. Los Angeles: UCLA Latin American Center Publications.
- East, T.; Adovasio, J. M.; and Carlisle, R. C. Phase III Cultural Resource Management Excavations at Site 36C09, Columbia County, Pennsylvania: An Executive Summary (April 11, 1985). A report prepared by the Cultural Resource Management Program for a Meeting with the Secretary of Transportation, Commonwealth of Pennsylvania. Harrisburg, Pennsylvania.
- East, T.; Jorstad, T. F.; Adovasio, J. M.; Donahue, J.; Carlisle, R. C.; Fitzgibbons, P. T.; and Baker, T. Archaeological Investigations on Cinnamon Creek Ridge, McKenzie County, North Dakota. A report prepared under the supervision of J. M. Adovasio, Ph.D., Principal Investigator. Submitted to the USDA Forest Service, Custer National Forest under the terms of a Letter of Agreement of October 6, 1980. Final Report, April 5, 1985.
- El-Najjar, M.; Aufderheide, A.; and Ortner, D. J. "Preserved Human Remains from the Southern Region of the North American Continent: A Report of Autopsy Findings." Human Pathology 16 (1985): 273-276.
- Fitzhugh, William W. "Paleo-Eskimo Cultures of Greenland." In Handbook of North American Indians. Arctic 5 (1984): 528-539. Edited by David Damas.
- _____. "Archeological Finds in Labrador." The Labradorian 11 (1984): 43-509.
- _____. "Pioneers of Labrador." Thems Days 10 (2)(1984): 4-28.

- Frison, George C. "Avocational Archaeology: Its Past, Present, and Future." In Ethics and Values in Archaeology (1984): 184-193. Edited by Ernestene L. Green. New York: The Free Press.
- _____. "The Carter/Kerr-McGee Paleoindian Site: Cultural Resource Management and Archaeological Research." American Antiquity 49 (2)(1984): 288-314.
- _____. "The Dead Indian Creek Site: An Archaic Occupation in the Absaroka Mountains of Northwestern Wyoming." Edited by George C. Frison and Danny N. Walker." Wyoming Archaeologist 27 (1-2)(1984): 11-122.
- Goddard, R. H. Ives III. "The Obviative in Fox Narrative Discourse." In Papers of the Fifteenth Algonquian Conference (1984)[1985]: 273-286. Edited by William Cowan. Ottawa: Carleton University.
- _____. "Synonymy." In "Introduction." Handbook of North American Indians 5 (1984): 5-7. Edited by W. Sturtevant. In Arctic. Edited by David Damas. Washington, D.C.: Smithsonian Institution Press.
- _____. "Technical Alphabet." Handbook of North American Indians 5 (1984): x-xi. Edited by W. Sturtevant. In Arctic. Edited by David Damas. Washington, D.C.: Smithsonian Institution Press.
- _____. Handbook of North American Indians. Edited by W. Sturtevant. Arctic 5 (1984). Linguistic edition. Edited by David Damas. Washington, D.C.: Smithsonian Institution Press.
- Gordon, Kathleen D. "The Assessment of Jaw Movement Direction from Dental Microwear." American Journal of Physical Anthropology 63 (1)(1984): 77-84.
- _____. "Taphonomy of Dental Microwear, II." American Journal of Physical Anthropology 63 (2)(1984): 164-165. (Abstract.)
- _____. "Difficulties in Using Silicone Elastomers for Surface Replication." Journal of Microscopy 134 (2)(1984): 183-188.
- _____. "Hominoid Dental Microwear: Complications in the Use of Microwear Analysis to Detect Diet." Journal of Dental Research 63 (8)(1984): 1043-1046.
- _____. "Using Dental Microwear to Detect Orientation of Occlusal Contacts." Archives of Oral Biology 29 (10)(1984): 783-787.
- Houchins, Chang-su. "The Magic of the Korean Tiger." Korean Culture 5 (4)(December 1984): 28-37. Los Angeles.
- _____. "Miguk eso palgyondoeng Kjong ch'osang yuhwa [A Portrait of King Kjong in the Smithsonian Collections]." Kyegon Misul (Arts Quarterly) 34 (Seoul)(Summer 1985): 104-9.

- Hughes, Charles C., and Goddard, R. H. Ives III. "Synonymy." In "Siberian Eskimo" and "Saint Lawrence Island Eskimo." Handbook of North American Indians. Edited by W. Sturtevant. In Arctic 5 (1984): 259-60, 276-77. Edited by David Damas. Washington, D.C.: Smithsonian Institution Press.
- Kaeppler, Adrienne L. "Foreword." In Siapo: Samoan Bark Cloth by Mary Pritchard (1984): vi-vii. Pago Pago: Arts Council of American Samoa.
- _____. "Hawaiian Art and Society: Traditions and Transformations." In Transformations of Polynesian Culture. Edited by Antony Hooper and Judith Huntsman. Memoir 45 (1985): 105-131. Auckland, New Zealand: The Polynesian Society.
- _____. "Traditional Transmission and the Transmission of Tradition in Polynesian Dance." In Becoming Human Through Music: The Wesleyan Symposium on the Perspectives of Social Anthropology in the Teaching and Learning of Music (1985): 29-42. Reston: Music Educators National Conference.
- Karp, Ivan. "Deconstructing Culture-Bound Syndromes." Social Science and Medicine 21 (2)(1985): 221-228.
- Keel, Bennie C., and Egloff, Brian J. "The Cane Creek Site, Mitchell County, North Carolina." Southern Indian Studies 33 (1984): 3-44.
- Kleivan, Inge, and Goddard, R. H. Ives III. "Synonymy." In "West Greenland Before 1950." Handbook of North American Indians. Edited by W. Sturtevant. In Arctic 5 (1984): 620. Edited by David Damas. Washington, D.C.: Smithsonian Institution Press.
- Knez, Eugene, Scholars in Korean Studies. "Eugene Knez, Korea and Korean Studies." Korean and Korean-American Studies Bulletin 1 (2/3)(1985): 10-12. New Haven: HRAF.
- Lantis, Margaret, and Goddard, R. H. Ives III. "Synonymy." In "Nunivak Eskimo." Handbook of North American Indians. Edited by W. Sturtevant. In Arctic 5 (1984): 222. Edited by David Damas. Washington, D.C.: Smithsonian Institution Press.
- Laughlin, Robert M. "La Rama Dorada: Magia y Botanica en Zinacantan." In Investigaciones Recientes en el Area Maya, XVII Mesa Redonda, Sociedad Mexicana de Antropologia 1 (1984): 349-355.
- Ledergerber, Paulina. "Tesis en Antropologia Ecuatoriana Aprobadas por Universidades del Canada y los Estados Unidos." Miscela-Antropologica Ecuatoriana, Ano 3 (3)(1984).

- Megggers, Betty J. "The Indigenous Peoples of Amazonia, Their Cultures, Land Use Patterns and Effects on the Landscape and Biota." In The Amazon, Limnology and Landscape Ecology of a Mighty Tropical River and Its Basin (1984): 627-648. Edited by Harald Sioli. Dordrecht, Boston, and Lancaster: Dr. W. Junk Publishers.
- _____. "Advances in Brazilian Archaeology, 1935-1985." American Antiquity 50 (1985): 364-373.
- _____. "Archaeology: South America." Handbook of Latin American Studies 45 (1985): 63-93. Austin: University of Texas Press.
- Merrill, William. "Rites: L'univers Religieux des Indiens Tarahumaras." In GEO (Paris)(May 1983): 132-144.
- Michael, Franz. "Rule by Incarnation: Tibetan Buddhism and Its Role in Society and State" (1982). In collaboration with Eugene Knez, assisted by Lobsang Lhalungpa and Tashi Densapa. Boulder: Westview Press.
- Milanich, Jerald T.; Chapman, J.; Cordell, A. S.; Hale, S.; and Marrinan, R. "Towards an Understanding of the Prehistoric Development of Calusa Society in Southwest Florida--Excavations on Useppa Island, Lee County." In Perspectives on Gulf Coast Prehistory, 258-314. Edited by Dave D. Davis. Ripley P. Bullen Monographs in Anthropology and History 5 (1984). Gainesville: University Presses of Florida.
- Milanich, Jerald T.; Cordell, A. S.; Sigler-Lavelle, B. J.; Kohler, T. A.; and Knight, V. J. McKeithen Weeden Island--The Culture of Northern Florida, A.D. 200-900 (1984). New York: Academic Press.
- Ortner, Donald J. "Bone Lesions in a Probable Case of Scurvy from Matlatavik, Alaska." MASCA 3 (1984): 79-81.
- _____. "Possible Mycotic Infection in Three Archeological Cases from Alaska." Papers on Paleopathology. Presented at the 12th Annual Meeting of the Paleopathology Association (1985): 9-10. (Abstract.)
- Owsley, D. W.; Ortner, D. J.; and Mires, A. M. "Case Report No. 4." Paleopathology Newsletter 49 (1985): 7-8.
- Parks, Douglas R., and Wedel, Waldo R. "Pawnee Geography: Historical and Sacred." In Great Plains Quarterly 5 (1985): 143-176.
- Potts, Richard. "Home Bases and Early Hominids." American Scientist 72 (1985): 338-347.
- _____. "Hominid hunters? Problems of Identifying the Earliest Hunter-gatherers." In Hominid Evolution and Community Ecology (1985): 129-166. Edited by R. Foley. London: Academic Press.
- _____. "L'homme, ce charognard." La Recherche 16 (1985): 685-686.

- Powell, Mary L. "The Analysis of Dental Wear and Caries for Dietary Reconstruction." In The Analysis of Prehistoric Diets (1985): 307-338. Edited by R. I. Gilbert and J. H. Mielke. San Diego: Academic Press.
- _____. "Differential Diagnosis of Treponematosi s in the Southeastern Mississippian Population at Moundville, Alabama." American Journal of Physical Anthropology 66 (1985): 215-216.
- _____. "Health, Disease and Social Organization in the Mississippi Community at Moundville" (1985). Ann Arbor: University Microfilms.
- Rose, Carolyn L. "Ethnographic Conservation in the United States." First Newsletter of the International Council of Museums Working Group on Ethnographic Conservation (Calgary)(1985): 13-14.
- _____. "Leather Conservation in the Anthropology Conservation Laboratory at the National Museum of Natural History." Leather Conservation Refresher Course Proceedings (1985): 83-84. Washington, D.C.: American Institute for Conservation.
- Rose, C.; Raphael, B.; Lechtman, H.; Singley, K.; and Allardt, A. "Ethnographic and Archaeological Conservation in the United States" (1984): 20 pages. Washington, D.C.: National Institute for the Conservation of Cultural Property.
- Rose, C.; Weissner, T.; Ford, R.; Lechtman, H.; and Sterud, E. "Suggested Curriculum for Training in Ethnographic and Archaeological Conservation." National Institute for the Conservation of Cultural Property. Washington, D.C. (1984): 20 pages. In Student Training Conference Papers. Los Angeles: Getty Institute for Conservation.
- Schmidt, Dwight. "The Old Red Brick: Insight for the Living." Anthro-Notes 7 (2)(Spring 1985).
- Smith, Bruce D. Introduction to the 1985 Edition. Report on the Mound Explorations of the Bureau of Ethnology, by Cyrus Thomas (originally published in 1894). Seventh reprint in the Classics of Smithsonian Anthropology series (1985). Washington, D.C.: Smithsonian Institution Press.
- _____. "The Role of Chenopodium as a Domesticated in Pre-maize Garden Systems of the Eastern United States." Southeastern Archaeology 4 (1985).
- Smith, B. D., and Funk, V. "A Newly Described Subfossil Cultivar of Chenopodium (Chenopodiaceae)." Phytologia (1985).
- Stanford, Dennis J. "The Jones-Miller Site: A Study of Hell Gap Bison Procurement and Processing." National Geographic Society Research Reports 16 (1985): 615-635.
- Stanford, Dennis J., and Graham, R. "A Report on Karst Studies in the Peoples' Republic of China." The National Speleological Society Bulletin 45 (1985): 79-81.

- Stanford, Dennis J., and Haynes, G. "On the Possible Utilization of Camelops by Early Man in North America." In Taphonomic Analysis and Interpretation in North American Pleistocene Archeology. Edited by E. James Dixon. Quaternary Research 22 (1985): 216-230.
- Stanford, Dennis J., and Patton, R. "R-6, A Preliminary Report of a Cody Complex Site in North Central New Mexico." Papers of the Philmont Conference on the Archeology of Northeastern New Mexico Proceedings 6 (1)(1985): 187-199. Edited by Carol Condie.
- Sturtevant, William C., ed. Arctic. Handbook of North American Indians 5 (1984). Edited by David Damas. Washington, D.C.: Smithsonian Institution Press.
- _____. "Foreword." In Final Report of the United States De Soto Expedition Commission, by John R. Swanton (1985): v-ix. Classics of Smithsonian Anthropology. Washington, D.C.: Smithsonian Institution Press.
- _____. "Views of a New World [and] America from Drake's Quarterdeck: Sixteenth-century Drawings from Sir Francis Drake's Voyages...." American Heritage 36 (5)(1985): 82-92.
- Sturtevant, William C., and Meltzer, David J. "The Holly Oak Pendant." Science 227 (4684)(Jan. 18, 1985): 242, 244.
- Taylor, Paul M. "Tobeloese Deixis." Anthropological Linguistics 6 (Spring 1984): 102-122.
- _____. "Covert Categories Reconsidered: Identifying Unlabeled Classes in Tobelo Folk Biological Classification." Journal of Ethnobiology 4 (2)(1985): 105-122.
- _____. "The Indonesian Collections of William Louis Abbott (1860-1936): Invitation to a Research Resource at the Smithsonian Institution." Council for Museum Anthropology Newsletter 9 (2)(1985): 5-14.
- Trinkaus, Erik, and Stewart, T. D. "The Shanidar 3 Neanderthal; a Fragmentary Skeleton from Fhanidar Cave, Northern Iraq." Sumer, a Journal of Archaeology and History in the Arab World 36 (1980): 9-35. Baghdad, Iraq.
- Trousdale, William. "Buddhistische Klöster am Hilmend-Fluss." Aus den Osten des Alexanderreichs (Festschrift für Klaus Fischer). Köln (1984): 143-153.
- Trousdale, William, ed. The Gordon Creeds in Afghanistan, 1839 and 1878-79 (1984): 189. London.

- Ubelaker, Douglas H. "Prehistoric Human Biology of Ecuador: Possible Temporal Trends and Cultural Correlations." In Paleopathology at the Origins of Agriculture, chapter 19 (1984): 491-513. Edited by Mark N. Cohen and George J. Armelagos. New York: Academic Press.
- _____. "Positive Identification from the Radiographic Comparison of Frontal Sinus Patterns." In Human Identification (1984): 399-411. Edited by T. Rathbun and J. Buikstra. Springfield: Charles C. Thomas.
- _____. Human Skeletal Remains, Excavation, Analysis, Interpretation. Revised Edition (1984): 119 pages. Washington: Taraxacum.
- _____. "A Discussion of Mid-Atlantic Ossuaries." In The Accokeek Creek Complex and the Emerging Maryland Colony (1984). Accokeek, Maryland: Alice Ferguson Foundation.
- _____. "Huesos Humanos y Arqueologia." Miscelania Antropologica Ecuatoriana. Boletín de los Museos del Banco Central del Ecuador 3 (1984): 117-142.
- Ubelaker, Douglas H.; Bass, William M.; Jantz, Richard L.; and Fred H. Smith. A Review of Human Origins. Revised fifth edition (1984): 92 pages. Knoxville.
- Van Stone, J. W., and Goddard, R. H. Ives III. "Synonymy." In "Mainland Southwest Alaska Eskimo." Handbook of North American Indians. Edited by W. Sturtevant. In Arctic 5 (1984): 241-242.. Edited by David Damas. Washington, D.C.: Smithsonian Institution Press.
- Von Endt, D. W., and Ortner, D. J. "Experimental Effects of Bone Size and Temperature on Bone Diagenesis." Journal of Archaeological Science 11 (1984): 247-253.
- Webb, S. D.; Milanich, J. T.; Alexon, R.; and Dunbar, J. "A Bison Antiquus Kill Site, Wacissa River, Jefferson County, Florida." American Antiquity 49 (1984): 384-392.

Department of Botany

- Banerjee, S; Jakupovic, J.; Bohlmann, F.; King, R. M.; and Robinson, H. "A Rearranged Eudesmane and Further Verbesindiol Derivatives from Verbesina eggertii." Phytochemistry 24 (5)(1985): 1106-1108.
- Blair, S. M., and Norris, J. N. "Deep-Water Caribbean Species of Halimeda (Udoteaceae): Observations of Depth Distributions and Morphology." Journal of Phycology 21 (Suppl.)(1985): 5.
- Bohlmann, F.; Ahmed, M.; Jakupovic, J.; King, R. M.; and Robinson, H. "Three Kolavane Derivatives and 2 Beta-Angeloyloxy Himachanolide from Acritopappus longifolius." Rev. Latinoamer. Quim. 15 (1)(1984): 1618.

- Bohlmann, F.; Ang, W.; King, R. M.; and Robinson, H.
 "A Further Steiractinolide from Wedelia grandiflora." Phytochemistry 23 (9)(1984): 2069-2070.
- Bohlmann, F.; Banerjee, S.; Jakupovic, J.; Grenz, M.; Misra, L. N.; Schmeda-Hirschmann, G.; King, R. M.; and Robinson, H. "Clerodane and Labdane Diterpenoids from Baccharis Species." Phytochemistry 24 (3)(1985): 511-515.
- Bohlmann, F.; Banerjee, S.; Jakupovic, J.; King, R. M.; and Robinson, H. "Bisabolene Derivatives and Acetylenic Compounds from Peruvian Coreopsis Species." Phytochemistry 24 (6)(1985): 1295-1297.
- Bohlmann, F.; Banerjee, S.; Wolfrum, C.; Jakupovic, J.; King, R. M.; and Robinson, H. "Sesquiterpene Lactones, Geranylnerol and Tremetone Derivatives from Ageratina Species." Phytochemistry 24 (6): 1319-1321.
- Bohlmann, F.; Castro, V.; Zdero, C.; King, R. M.; and Robinson, H. "New Furanoeremphilanes from Senecio Species." Rev. Latinoamer. Quim. 14 (3)(1984): 101-103.
- Bohlmann, F.; Grenz, M.; Jakupovic, J.; King, R. M.; and Robinson, H. "New Labdane Derivatives and Other Constituents from Fleischmannia viscidioles." Rev. Latinoamer. Quim. 15 (1)(1984): 1-3.
- Bohlmann, F.; Jakupovic, J.; Zdero, C.; King, R. M.; and Robinson, H. "Onognaphalin, a Further 5-Methyl Coumarin from Onoseris gnaphalioides." Phytochemistry 24 (6)(1985): 1392-1393.
- Bohlmann, F.; Jakupovic, J.; Hartono, L.; King, R. M.; and Robinson, H. "A Further Steiractinolide Derivative from Spilanthes leiocarpa." Phytochemistry 24 (5)(1985): 1100-1101.
- Bohlmann, F.; Jakupovic, J.; Schuster, A.; King, R. M.; and Robinson, H. "Germacranolide, Hydroxyverbenon Und Ent-Kaur-15(16)-en-17, 19-Disaure aus Helianthus occidentalis var. dowellianus." Planta Medica 1984 (2)(1984): 202.
- _____. "Homogeranyl Nerol Derivatives and a Melampolide from Smallanthus glabratus." Phytochemistry 24 (6)(1985): 1309-1313.
- Bohlmann, F.; Misra, L. N.; Jakupovic, J.; Robinson, H.; and King, R. M. "New Sesquiterpene Lactone Type from Dugaldia hoopesi." Journal of Natural Products 47 (4)(1984): 658-662.
- Bohlmann, F.; Misra, L. N.; Jakupovic, J.; King, R. M.; and Robinson, H. "Guaianolide A-Arabinopyranosides from Helenium amarum." Phytochemistry 24 (6)(1985): 1315-1318.
- Bohlmann, F.; Schmeda-Hirschmann, G.; Jakupovic, J.; King, R. M.; and Robinson, H. "Germacranolides from Gochnatia vernonioides." Phytochemistry 23 (9)(1984): 1989-1993.

- Bohlmann, F.; Trinks, C.; Jakupovic, J.; King, R. M.; and Robinson, H. "Isolation of a Guaianolide from Symphypappus compressus." Planta Medica 1984 (3)(1984): 276-277.
- _____. "A Further Guaianolide from Kaunia arbuscularis." Planta Medica 1984 (3)(1984): 284.
- Bohlmann, F.; Wallmeyer, M.; Jakupovic, J.; Gerke, T.; King, R. M.; and Robinson, H. "Cuauthemone Sesquiterpenoids from Blumea alata." Phytochemistry 24 (3)(1985): 505-509.
- Bohlmann, F.; Wolfrum, C.; Jakupovic, J.; King, R. M.; and Robinson, H. "Further Cadinene Derivatives from Heterotheca latifolia." Phytochemistry 24 (5)(1985): 1101-1103.
- Bohlmann, F.; Zdero, C.; King, R. M.; and Robinson, H. "Pseudoguaianolides and Other Sesquiterpene Lactones from Gaillardia Species." Phytochemistry 23 (9)(1984): 1979-1988.
- _____. "Gutierrezial and Further Diterpenes from Gutierrezia sarothrae." Phytochemistry 23 (9)(1984): 2007-2012.
- _____. "Oplopane Derivatives from Arnoglossum atriplicifolium." Rev. Latinoamer. Quim. 15(1)(1984): 11-13.
- _____. "Phenylethylamida aus Critoniella acuminata." Planta Medica 1984 (2)(1984): 187-188.
- _____. "Polyacetylenverbindungen aus Jungia seteriana." Planta Medica 1984 (2)(1984): 190-191.
- _____. "Neue Aromadendren-Derivate aus Wyethia arizonica." Planta Medica 1984 (2)(1984): 195-196.
- _____. "A Further Geranylnerol Derivative from Helianthopsis Species." Phytochemistry 24 (5)(1985): 1108-1110.
- Bohlmann, F.; Zdero, C.; Jakupovic, J.; Misra, L. N.; Banerjee, S.; Singh, P.; Baruah, R. N.; Metwally, M. A.; Schmeda-Hirschmann, G.; Vincent, L. P. D.; King, R. M.; and Robinson, H. "Eremophilane Derivatives and Other Constituents from Senecio Species." Phytochemistry 24 (6)(1985): 1249-1261.
- Burns-Balogh, P., and Funk, V. A. "Evolution of the Monandrous Orchidaceae I." Canadian Orchid Journal 2 (2)(1985): 22-31.
- _____. "Evolution of the Monandrous Orchidaceae III." Canadian Orchid Journal 2 (3)(1985): 6-14.
- _____. "Evolution of the Monandrous Orchidaceae." Canadian Orchid Journal 2 (4)(1985): 3-11.
- Burns-Balogh, P.; Robinson, H.; and Foster, M. S. "The Capitulate-Flowered Epiphytic Spiranthinae (Orchidaceae) and a New Genus from Paraguay." Brittonia 37 (2)(1985): 154-162.

- Connor, J. S.; Cubit, J. E.; and Norris, J. N. "Cyclic Changes in Biotic Surface Cover of a Fringing Reef in Caribbean Panama." Journal of Phycology 20 (Suppl.)(1984): 13.
- Cowan, R. S. "Studies in Tropical American Leguminosae - IX." Brittonia 37 (3)(1985): 291-304.
- Cuatrecasas, J. "Studies in Neotropical Senecioneae V. Two New Species of Pentacalia from Colombia." Phytologia 57 (3)(1985): 169-174.
- _____. "Brunelliaceae, Supplement." Flora Neotropica, Monograph no. 2 (Suppl.)(1985): 28-103.
- _____. "Miscelanea Sobre Flora Neotropica IV." Fontqueria 8 (1985): 9-18.
- Faden, R. B. "New Taxa of Aneilema R. Br. (Commelinaceae) from Southern and Tropical East Africa." Bothalia 15 (1-2)(1984): 89-100.
- _____. "Commelinaceae." In The Families of the Monocotyledons, 381-387 by R. M. T. Dahlgren, H. T. Clifford, and P. F. Yeo. Berlin: Springer-Verlag, 1985.
- _____. "Mayacaceae." In The Families of the Monocotyledons (1985): 387-388 by R. M. T. Dahlgren, H. T. Clifford, and P. F. Yeo. Berlin: Springer-Verlag.
- _____. "Overlooked Combinations in the Commelinaceae Published by Robert Sweet and J. C. Loudon." Taxon 34 (2)(1985): 295-296.
- Fosberg, F. R. "Henderson Island Saved." Environmental Conservation 11 (1984): 183-184.
- _____. "Phytogeography Comparison of Polynesia and Micronesia." In Biogeography of the Tropical Pacific (1984): 33-44. Edited by F. J. Radovsky, P. H. Raven, and S. H. Sohmer. Honolulu: Association of Systematics Collections.
- _____. "Range Extension of Diaporthiopsis metrosideri to Bird Park, Hawaii Volcanoes National Park." Newsletter Hawaiian Botanical Society 24 (1985): 18.
- _____. "Cordyline fruticosa (L.) Chevalier (Agavaceae)." Baileya 22 (4)(1985): 180-181.
- _____. "Present State of Knowledge of the Flora and Vegetation of Emergent Reef Surfaces." Proceedings of the 5th International Coral Reef Congress 2 (1985): 138.
- _____. "Classification of Emergent Reef Surfaces." Atoll Research Bulletin 292 (1985): 29-35.
- _____. "Botanical Visits to Krakatau in 1958 and 1963." Atoll Research Bulletin 292 (1985): 39-47.
- _____. "Origin and Early History of the Flora Neotropica Project." Flora Neotropica, Monograph no. 2 (Suppl.)(1985): 25-27.
- Fosberg, F. R., and Sachet, M. -H. "History of the Generic Name Pseuderanthum Radlkofer (Acanthaceae)." Baileya 22(4)(1985): 178-179.

- Fosberg, F. R., and Terrell, E. E. "A Recently Established Exotic in West Florida and Alabama (Hedyotis salzmännii or Oldenlandia salzmännii Rubiaceae)." Castanea 50 (1985): 49-51.
- Funk, V. A. "Cladistics and Generic Concepts in the Compositae." Taxon 34 (1985): 72-80.
- _____. "Preface and Curriculum Vitae of Jose Cuatrecasas." Flora Neotropica 2 (Suppl.)(1985): 1-12.
- Gerwick, W. H.; Fenical, W.; and Norris, J. N. "Chemical Variation in the Tropical Brown Seaweed Styopodium zonale (Dictyotaceae)." Phytochemistry 24 (6)(1985): 1279-1283.
- Graham, A.; Nowicke, J. W.; Skvarla, J. J.; Graham, S.; Patel, V.; and Lee, S. "Palynology and Systematics of the Lythraceae. I. Introduction and Genera Adenaria Through Ginoria." American Journal of Botany 72 (1985): 768-788.
- Hale, Mason E., Jr. "The Lichen Line and High Water Levels in a Freshwater Stream in Florida." The Bryologist 87 (3)(1984): 261-265.
- _____. "An Historical Review of the Genus Concept in Lichenology." Beiheft 79 zur Nova Hedwigia, Festschrift J. Poelt (1984): 11-23.
- _____. "New Species in the Lichen Genus Xanthoparmelia (Vain.) Hale (Ascomycotina: Parmeliaceae)." Mycotaxon 22 (2)(1985): 281-284.
- Hale, Mason E., Jr., and Lawrey, J. A. "Annual Rate of Lead Accumulation in the Lichen Pseudoparmelia baltimorensis." The Bryologist 88 (1) (1985): 5-7.
- Hale, Mason E., Jr., and Ocampo-Friedmann, R. "Ascospore Cultures of Lichen Phycobionts From the Antarctic Desert." Antarctic Journal 19 (5)(1984): 170.
- Hay, M. E., and Norris, J. N. "Seasonal Reproduction and Abundance of Six Sympatric Species of Gracilaria Grev. (Gracilariaceae; Rhodophyta) on a Caribbean Subtidal Sand Plain." Hydrobiologia 116/117 (1984): 63-72.
- Jensen, P. R.; Gibson, R. A.; Littler, M. M.; and Littler, D. S. "Photosynthesis and Calcification in Four Deep-Water Halimeda Species (Chlorophyceae, Caulerpales)." Deep-Sea Research 32 (4)(1985): 451-464.
- Kilar, J. A.; Norris, J. N.; Hay, M. E.; and Cubit, J. E. "Spatial Patterns and Seasonal Abundances of Major Reefflat Assemblages on a Caribbean Fringing Reef (Galea Point, Panama)." Journal of Phycology 21 (Suppl.)(1985): 5.
- King, R. M., and Robinson, H. "Studies in the Eupatorieae (Asteraceae). CCXVIII. A Second Species of Iltisia." Phytologia 56 (5)(1984): 249-251.
- _____. "Studies in the Eupatorieae (Asteraceae). CCXIX. A New Species of Cronquistianthus." Phytologia 56 (5)(1984): 252-255.
- _____. "Studies in the Eupatorieae (Asteraceae). CCXX. A New Species of Alomiella from Brazil." Phytologia 56 (5)(1984): 256-258.

- Lamlein, Jane. "Announcing: The Center For Plant Conservation." Endangered Species Technical Bulletin Reprint 2 (1)(1984): 3.
- _____. "Indian Forest Reserve in Panama." Threatened Plants Newsletter 13 (1984): 6.
- _____. "Latin American Conservation Network." Threatened Plants Newsletter 13 (1984): 6-7.
- _____. "WWF-UF Plants Programme." Threatened Plants Newsletter 13 (1984): 7.
- Lellinger, David B. "Nomenclatural and Taxonomic Notes on the Pteridophytes of Costa Rica, Panama, and Colombia, II." Proceedings of the Biological Society of Washington 98 (1985): 366-390.
- _____. "The Distribution of Panama's Pteridophytes." In The Botany and Natural History of Panama (1985): 43-47. Edited by W. G. D'Arcy and M. D. Correa. St. Louis: Missouri Botanical Garden.
- Littler, M. M., and Littler, D. S. "Models of Tropical Reef Biogenesis: The Contribution of Algae." In Progress in Phycological Research 3 (1984): 323-364. Edited by F. E. Round and D. J. Chapman. Bristol: Biopress.
- Littler, M. M.; Littler, D. S.; Blair, S. M.; and Norris, J. N. "Deepest Known Plant Life Discovered on an Uncharted Seamount." Science 227 (1985): 57-59.
- Littler, M. M.; Taylor, P. R.; Littler, D. S.; Sims, R. H.; and Norris, J. N. "The Distribution, Abundance and Primary Productivity of Submerged Macrophytes in a Belize Barrier Reef Mangrove System." Atoll Research Bulletin 289 (1985): 1-22.
- Lourteig, A., and Fosberg, F. R. "Application of the Name Calophyllum calaba L. Guttiferae (Clusiaceae)." Phytologia 57 (2)(1985): 153-155.
- Metwally, M. A.; King, R. M.; and Robinson, H. "An Acetylenic Epoxide and a Ferulate from Coreopsis longula." Phytochemistry 24 (1)(1985): 182-183.
- Murray, S. N., and Littler, M. M. "Analysis of Seaweed Communities in a Disturbed Rocky Intertidal Environment Near Whites Point, Los Angeles, California." Hydrobiologia 116/117 (1984): 374-382.
- Nicolson, Dan H. "Aqlaonema." In The European Garden Flora 2 (1984): 94-96. Edited by S. M. Walters, et al. Cambridge: Cambridge University Press.
- _____. "Notes on a New Genus Pentastemona [Stemonaceae]." Aroideana 7 (1984): 53.
- _____. "A Second Collection of Pedicellarum (Araceae)." Aroideana 7 (1984): 56-57.
- _____. "Notes on Aroid Papers." Aroidenan 7 (1984): 63.
- _____. "Suprageneric Names Attributable to Araceae." Taxon 3 (1984): 680-690.
- _____. "Postscriptum." Taxon 34 (1985): 299-300.

- Nicolson, Dan H.; Bogner, J.; Mayo, S.; and Sivadasan, M.
 "(776) Proposal to Amend 723 Amorphophallus, add Thomsonia,
nom. rej. prop. (Araceae)." Taxon 33 (1984): 740.
- Nicolson, Dan H., and Jarvis, C. E. "Cissus verticillata,
 a New Combination for C. sicyoides (Vitaceae)." Taxon 33
 (1984): 726-727.
- Nicolson, Dan H., and Suresh, C. R. "(795) Proposal to
 Conserve 5793 Ludwigia (Onagraceae)." Taxon 34 (1985):
 537-538.
- Norris, J. N. "Non-Flowering Plants: Marine Algae [Seri
 Indian Seaweed Knowledge]." In People of the Desert and
 Sea: Ethnobotany of the Seri Indians (1985): 207-216, by
 R. S. Felger and M. B. Moser. Tucson: University of
 Arizona Press.
- Nowicke, J. W. "A Palynological Study of the Pandaceae."
Pollen and Spores 26 (1)(1984): 31-42.
- Nowicke, J. W.; Skvarla, J. J.; Raven, P. H.; and
 Berry, P. E. "Palynological Study of the Genus Fuchsia
 (Onagraceae)." Annals of the Missouri Botanical Garden 71
 (1984): 35-91.
- Nowicke, J. W.; Patel, V.C.; and Skvarla, J. J. "Pollen
 Morphology and the Relationships of Aetoxylon, Amyxa, and
Gonystylus to the Thymelaeaceae." American Journal of
 Botany 72 (7)(1985): 906-913.
- Obermeyer, A. A., and Faden, R. B. "Commelinaceae." In Flora
 of Southern Africa 4 (pt. 2)(1985): 23-60. Edited by
 O. A. Leistner. Cape Town: Government Printer.
- Oliver, R. L., and Skog, L. E. "Gesneriaceae." In
 "Chromosome Number Reports LXXXVII." Taxon 34 (2)(1985):
 346.
- Read, R. W. "Aechmea strobilina, Rediscovered?" Journal of
 the Bromeliad Society 35 (3)(1985): 104-105 (fig. 3).
 _____. "The Evolution of a New Genus Lymania gen. nov."
Journal of the Bromeliad Society 34 (5)(1984): 199-201,
 212-216, (figs. 2-11).
 _____. "Incidental Mention: For Example..." Taxon 34
 (2)(1985): 341-342.
 _____. "Natural Hybridization: The Problem." Proceedings
 of the 1982 World Bromeliad Conference (1984): 98-104.
- Read, R. W., and Philcox, D. "Bull, You Say?" Taxon 34
 (2)(1985): 294.
- Read, R. W., and Zanoni, T. A. "Thrinax morrisii H. Wendland
 (Arecaceae): A Palm New for the Flora of Hispaniola."
Moscossa 3 (1984): 151-152 (fig. 1).

- Robinson, H. "Studies in the Heliantheae (Asteraceae). XXXX.
A New Species of Wulffia from Ecuador." Phytologia 56
(5)(1984): 259-261.
- _____. "Studies in the Heliantheae (Asteraceae). XXXIX.
New Species of Aspilia from Brazil." Phytologia 56
(5)(1984): 262-286.
- _____. "Studies in the Liabeae (Asteraceae). XVII. Two New
Species of Munnozia." Phytologia 56 (5)(1984): 287-292.
- _____. "Studies in the Heliantheae (Asteraceae). XXXIV.
Redelimitation of the Genus Angelphytum." Proceedings of
the Biological Society of Washington 97 (4)(1984): 961-969.
- _____. "Observations on Fusion and Evolutionary Variability
in the Angiosperm Flower." Systematic Botany 10
(1)(1985): 105-109.
- _____. "In Honor of the Botanical Career of
Jose Cuatrecasas." Flora Neotropica 2 (Suppl.)(1985):
13-16.
- Robinson, H., and Cuatrecasas, J. "Observations of the Genus
Gynoxys in Ecuador (Senecioneae: Asteraceae)." Phytologia
56 (5)(1984): 368-375.
- Robinson, H., and King, R. M. "Comments on the Generic
Concepts in the Eupatorieae." Taxon 34 (1)(1985): 11-16.
- Robinson, H., and Shaw, J. "Considerations on the Evolution
of the Moss Operculum." The Bryologist 87 (4)(1984):
293-296.
- Sachet, M. -H. "Vegetation et Flore Terrestre de l'Atoll de
Scilly (Fenua Ura)." Oceanistes 39 (77)(1985): 29-34.
- _____. "Vegetation and Flora of Society Island." In French
Polynesian Coral Reefs 1 by P. A. Pirazzoli. Proceedings
of the 5th International Coral Reef Congress (1985):
25-26. Moorea, Polynesia: Antenne Museum-EPHE.
- Seeley, T. D.; Nowicke, J. W.; Meselson, M.; Guillemain, J.;
and Akwatanakul, P. "Yellow Rain." Scientific American
252 (9)(1985): 128-137.
- Sendulsky, T., and Soderstrom, T. B. "Revision of the South
American Genus Otachyrium (Poaceae: Panicoideae)."
Smithsonian Contributions to Botany 57 (1985). Washington,
D.C.: Smithsonian Institution Press.
- Shaw, J., and Robinson, H. "On the Development, Evolution,
and Function of Peristomes in Mosses." Journal of the
Hattori Botanical Laboratory 57 (1984): 319-335.

- Skog, L. E. "Another Well-Known Name Bites the Dust." The Gloxinian 35 (2)(1985): 9-10.
- _____. "Flora of the Guianas Project." American Journal of Botany 72 (6)(1985): 969-970.
- _____. Entries pertaining to Eponymy on approximately 100 pages. In Taxonomic Literature Selective Guide To Botanical Publications and Collections with Dates, Commentaries and Types. Vol. 5, 2d edition (1985). Sal-Ste by F. A. Stafleu and R. S. Cowan. Utrecht, The Netherlands: Bohn, Scheltema and Holkema.
- _____. "111. Gesneriaceae." In The Flora of the Tamilnadu Carnatic 2 (1983): 1124-1125. Gamopetalae & Monochlamydeae. Edited by K. M. Matthew. Tiruchirapalli, India: Rapinat Herbarium, St. Joseph's College.
- _____. "A Review of Chromosome Numbers in the Gesneriaceae." Selbyana 7 (2-4)(1984): 252-273.
- _____. "Proposal to Conserve the Spelling Rhynchoglossum (Gesneriaceae)." Taxon 34 (2)(1985): 319-320.
- Smith, L. B. "A New Genus of Velloziaceae." Phytologia 57 (2)(1985): 152.
- _____. "Morren's Paintings, 4: Neoregelia chlorosticta." Journal of the Bromeliad Society 35 (3)(1985): 100.
- _____. "Morren's Paintings, 5: Aechmea aureo-rosea." Journal of the Bromeliad Society 35 (4)(1985): 148.
- _____. "Morren's Paintings, 6: Aechmea dealbata." Journal of the Bromeliad Society 35 (5)(1985): 196.
- _____. "Morren's Paintings, 3: Neoregelia Tristis." Journal of the Bromeliad Society 34 (6)(1984): 244.
- Smith, L. B.; Steyermark, J. A.; and Robinson, H. "Bromeliaceae in Direccion de Investigaciones Biologicas Instituto Nacional de Parques." Acta Botanica Venezuelica 14 (3)(1984): 8-18 (figs. 1-10).
- Smith, L. B., and Steyermark, J. A. "A New Species of Connellia from Venezuela." Journal of the Bromeliad Society 35 (2)(1985): 52-53 (figs. 1-2).
- Smith, L. B., and Wasshausen, D. C. "A New Ecuador Species." The Begonian 52 (1985): 11-13.
- Soderstrom, T. R., and Zuloaga, F. O. "New Species of Grasses in Arberella, Cryptochloa, and Raddia (Poaceae: Bambusoidea: Olyreae)." Brittonia 37 (1985): 22-35.
- _____. "Diandrolyra tatianae (Poaceae: Olyreae), a New Herbaceous Bamboo from Brazil." Brittonia 37 (1985): 1-5.
- Stafleu, F. A., and Cowan, R. S. Taxonomic Literature Selective Guide to Botanical Publications and Collections with Dates, Commentaries and Types 5 (1985): i-iii, 1-1066. 2d edition. Sal-Ste. Utrecht, The Netherlands: Bohn, Scheltema and Holkema.
- Stoddart, D. R., and Fosberg, F. R. "Vegetation and Floristics of the Western Indian Ocean Coral Islands." In Biogeography and Ecology of the Seychelles Islands (1984): 221-238. Edited by D. R. Stoddart. The Hague, The Netherlands: Dr. W. Junk Publishers.

- Wasshausen, Dieter C. "Kalbreveracanthus kirkbridei (Acanthaceae), a New Species from Colombia." Brittonia 37 (2)(1985): 199-202.
- _____. "New Species of Hansteinia (Acanthaceae) from Colombia and Ecuador." Brittonia 37 (2)(1985): 203-208.
- _____. "New Species of Habracanthus (Acanthaceae) from Ecuador." Brittonia 37 (3)(1985): 243-251.
- Zuloaga, F. O., and Soderstrom, T. R. "Classification of the Outlying Species of New World Panicum (Poaceae: Paniceae)." Smithsonian Contributions to Botany 59 (1985). Washington, D.C.: Smithsonian Institution Press.

Department of Entomology

- Anderson, John F.; Magnarelli, Louis A.; and Keirans, James E. "Ixodid and Argasid Ticks in Connecticut, U.S.A.: Aponomma latum, Amblyomma dissimile, Haemaphysalis leachi group, and Ornithodoros kelleyi (Acari: Ixodidae, Argasidae)." International Journal of Acarology 10 (3)(1984): 149-151.
- Baimai, V.; Green, C. A.; Andre, R. G.; Harrison, B. A.; and Peyton, E. L. "Cytogenetic Studies of Some Species Complexes of Anopheles in Thailand and Southeast Asia." Southeast Asian Journal of Tropical Medical Public Health 15 (4)(1984): 536-546.
- Burns, John M. "Evolutionary Differentiation: Differentiating Gold-banded Skippers--Autochton cellus and More (Lepidoptera: Hesperidae: Pyrginae)." Smithsonian Contributions to Zoology 405 (1984): i-iii, 1-38.
- Coddington, J. A. Review of The Explanation of Organic Diversity: The Comparative Method and Adaptations for Mating. Journal of Cladistics 1 (1984): 102-107.
- Davis, D. R. "Families Neopseustidae, Incurvariidae, Adelidae, Prodoxidae, Cecidosidae, Nepticulidae, Opostegidae, Tineidae, Psychidae, Arrhenophanidae." In Atlas of Neotropical Lepidoptera 2 (1984): 16-25. Edited by J. R. Heppner. Checklist, part 1 (Micropterigoidea to Immoidea). The Hague: Dr. W. Junk.
- _____. Presidential Profile. Lepidopterists News 1 (1985): 1.
- _____. "A Reexamination of Enteucha cyanochlora Meyrick and Its Subsequent Transfer to the Nepticulidae (Lepidoptera: Nepticuloidea)." Proceedings of the Entomological Society of Washington 87 (1)(1985): 142-145.

- Davis, D. R., and Miller, S. E. "Families Gracillariidae and Lyonetiidae." In Atlas of Neotropical Lepidoptera 2 (1984): 25-27. Edited by J. R. Heppner. Checklist, part 1 (Micropterigoidea to Immoidea). The Hague: Dr. W. Junk.
- Davis, D. R., and Nielsen, E. S. "The South American Neopseustid Genus Apoplandia Davis: A New Species, Distribution Records and Notes on Adult Behavior (Lepidoptera: Neopseustina)." Entomologica Scandinavica 15 (1984): 497-509.
- Erwin, T. L. "Composition and Origin of the Ground-Beetle Fauna of Sri Lanka (Coleoptera: Carabidae)." In Ecology and Biogeography of Sri Lanka (1984): 371-389. Edited by C. H. Fernando. The Hague: Dr. W. Junk b. v. Publishers.
- _____. "Small Terrestrial Ground Beetles of the Amazon Basin (Coleoptera: Bembidiini: Tachyina and Anillina)." Amazoniana 8 (4)(1984): 511-518.
- Erwin, T. L., and Sims, L. L. "Carabid Beetles of the West Indies (Insecta: Coleoptera): A Synopsis of the Genera and Checklists of Tribes of Caraboidea, and of the West Indian Species." Quaestiones Entomologicae 20 (1984): 351-464.
- Faran, Michael E.; Burnett, Charlotte; Crockett, James J.; and Lawson, W. L. "A Computerized Mosquito Information and Collection Management System for Systematic Research and Medical Entomology (Diptera: Culicidae)." Mosquito Systematics 16 (4)(1984): 289-307.
- Farhang Azad, A.; Traub, R.; Sofi, M.; and Wisseman, C. L., Jr. "Experimental Murine Typhus Infection in the Cat Flea, Ctenocephalides felis. Journal of Medical Entomology 21 (6)(1984): 675-680 (refs).
- Farhang Azad, A.; Traub, R.; and Baqar, S. "Transovarial Transmission of Murine Typhus Rickettsiae in Xenopsylla cheopis Fleas." Science 227 (4686)(1985): 543-545.
- Farhang Azad, A., and Traub, R. "Transmission of Murine Typhus Rickettsiae by Xenopsylla cheopis, With Notes on Experimental Infection and Effects of Temperature." American Journal of Tropical Medicine and Hygiene 34 (3)(1985): 555-563.
- Flint, Oliver S., Jr. "Studies on the Genus Brachycentrus." Proceedings of the 4th International Symposium on Trichoptera (1984): 143.
- _____. "The Genus Brachycentrus in North America, With a Proposed Phylogeny of the Genera of Brachycentridae (Trichoptera)." Smithsonian Contributions to Zoology 398 (1984): i-iv, 1-58.
- Freidberg, A., and Mathis, Wayne N. "On the Feeding Habits of Rhynchopsilopa (Diptera: Ephydriidae)." Entomophaga 30 (1)(1985): 13-21.
- Froeschner, R. C. "Synopsis of the Heteroptera or True Bugs of the Galapagos Islands." Smithsonian Contributions to Zoology 407 (1985): i-iii, 1-84.

- Froeschner, R. C., and Pena G., L. E. "First South American Record for the Circum-Mediterranean Patapius spinosus (Rossi) (Heteroptera: Leptopodidae)." Revista Chilena de Entomologia 11 (1985): 2 pages.
- Gaffigan, T. V., and Ward, R. A. Index to the Second Supplement to "A Catalog of the Mosquitoes of the World" with corrections and additions. (Diptera: Culicidae). Mosquito Systematics 17 (1)(1985): 52-53.
- Glorioso, Michael J., and Flint, O. S., Jr. "A Review of the Genus Platyneuromus (Insecta: Neuroptera: Corydalidae)." Proceedings of the Biological Society of Washington 97 (1984): 601-614.
- Goldman, Luther S.; Krombein, Karl V.; and Oehser, Paul H. "The Members and History of the Washington Biologists Field Club" (1984): 80 pages. Lawrence, Kansas: Allen Press.
- Green, C. A.; Baimai, V.; Harrison, B. A.; and Andre, R. G. "Cytogenetic Evidence for a Complex of Species Within the Taxon Anopheles maculatus (Diptera: Culicidae)." Biological Journal of the Linnean Society 24 (1985): 321-328.
- Green, C. A.; Harrison, B. A.; Klein, T. A.; and Baimai, V. "Cladistic Analysis of Polytene Chromosome Rearrangements in Anopheline Mosquitoes, Subgenus Cellia, series Neocellia." Canadian Journal of Genetics and Cytology 27 (2)(1985): 123-133.
- Harbach, R. E.; Dahl, C.; and White, G. B. "Culex (Culex) pipiens Linnaeus (Diptera: Culicidae): Concepts, Type Designations and Description." Proceedings of the Entomological Society of Washington 87 (1)(1985): 1-24.
- Huang, Y. M. "A New African Species of Aedes (Diptera: Culicidae)." Mosquito Systematics 17 (2)(1985): 13 pages.
- Kavanaugh, D. K., and Erwin, T. L. "Trechus obtusus Erichson (Coleoptera: Carabidae), A European Ground Beetle, on the Pacific Coast of North America: Its Distribution, Introduction and Spread." Pan-Pacific Entomology 61 (2)(1985): 170-179.
- Keirans, James E. "Amblyomma paulopunctatum Neumann (Ixodoidea: Ixodidae): Redescription of the Male and Female, With an Account of Its Known Hosts and Distribution." Proceedings of the Entomological Society of Washington 87 (3)(1985): 489-497.
- _____. "George Henry Falkiner Nuttall and the Nuttall Tick Catalogue." U. S. Department of Agriculture Miscellaneous Publication 1438 (1985): 1785 pages.
- Keirans, James E., and Clifford, Carleton M. "A Checklist of Types of Ixodoidea (Acari) in the Collection of the Rocky Mountain Laboratories." Journal of Medical Entomology 21 (3)(1984): 310-320.

- Keirans, James E.; Clifford, Carleton M.; and Hoogstraal, Harry. "Ornithodoros (Alectorobius) yunkeri, New Species (Acari: Ixodoidea: Argasidae), from Seabirds and Nesting Sites in the Galapagos Islands. Journal of Medical Entomology 21 (3)(1984): 344-350.
- Klein, T. A.; Harrison, B. A.; Baimai, V.; and Phunkitchar, V. "Hybridization Evidence Supporting Separate Species Status for Anopheles nivipes and Anopheles philippinensis." Mosquito News 44 (4)(1985): 466-470.
- Krombein, Karl V. "Biosystematic Studies of Ceylonese Wasps, XIV: A Revision of Carinostigmus Tsuneki (Hymenoptera: Sphecoidea: Pemphredonidae)." Smithsonian Contributions to Zoology 396 (1984): i-iii, 1-37 pages.
- _____. "Two New Egg Parasites of South African Walking Sticks and Notes on Two Previously Described Species (Hymenoptera: Chrysidoidea: Amiseginae)." Journal of the Entomological Society of Southern Africa 47 (1984): 211-215.
- _____. "Biosystematic Studies of Ceylonese Wasps, XV: A Monograph of the Alyssoninae, Nyssoninae and Gorytinae (Hymenoptera: Sphecoidea: Nyssonidae)." Smithsonian Contributions to Zoology 414 (1985): i-iii, 1-43.
- _____. "Oxybelus (Anoxybelus) maidlii Kohl, an Oxybelus With Unusual Features (Hymenoptera: Sphecoidea: Crabronidae)." Proceedings of the Entomological Society of Washington 87 (1985): 634-640.
- Krombein, Karl V., and Gingras, Sandra S. "Revision of North American Liris Fabricius (Hymenoptera: Sphecoidea: Larridae)." Smithsonian Contributions to Zoology 404 (1984): i-iii, 1-96.
- Masteller, E. C., and Flint, O. S., Jr. "Trichoptera Emergence Patterns from a Small Stream in Northwestern Pennsylvania Influenced by Sewage Effluent." Proceedings of the 4th International Symposium on Trichoptera (1984): 225-233.
- Mathis, Wayne N. "A New Psilopine Genus and Species From Israel With a Recharacterization of the Tribe and Key to Other Psilopine Genera of the Middle East (Diptera: Ephydriidae)." Proceedings of the Entomological Society of Washington 87 (2)(1985): 375-380.
- _____. "Studies of Parydrinae (Diptera: Ephydriidae), II: A Revision of the Shore Fly Genus Pelinoides Cresson." Smithsonian Contributions to Zoology 410 (1985): i-iv, 1-46.
- Mathis, Wayne N., and Ghorpadé, Kumar D. "Studies of Parydrinae (Diptera: Ephydriidae), I: A Review of the Genus Brachydeutera Loew from the Oriental, Australian, and Oceanian Regions." Smithsonian Contributions to Zoology 406 (1985): i-iii, 1-25.

- Nielsen, E. S., and Davis., D. R. "First Southern Hemisphere Prodoxid and the Phylogeny of the Incurvarioidea (Lepidoptera)." Systematic Entomology 10 (3)(1985): 307-322.
- Nurul Huda, K. M., and Harrison, B. A. "Priority of the Name Anopheles Pseudojamesi for the Species Previously Called An. ramsayi (Diptera: Culicidae)." Mosquito Systematics 17 (1)(1985): 49-51.
- Perkins, Philip D., and Spangler, Paul J. "Quadryops New Genus, and Three New Species of Arboreal Dryopidae (Coleoptera) from Panama and Ecuador. Proceedings of the Biological Society of Washington 98 (2)(1985): 490-506, 47 figs.
- Roberts, D. R.; Peyton, E. L.; Pinheiro, F. P.; Balderama, F.; and Vargas, R. "Associations of Arbovirus Vectors With Gallery Forests and Domestic Environments in Southeastern Bolivia. PAHO Bulletin 18 (4)(1985): 337-350.
- Roshdy, Mohamed A.; Hoogstraal, Harry; Clifford, Carleton M.; Keirans, James E.; and Corwin, Melvin D. "Bat Ticks of the Genus Argas (Ixodoidea: Argasidae). 13. Haller's Organ Roof and Anterior Pit Setae in Carios and Chiropterargas." Journal of Parasitology 70 (3)(1984): 407-411.
- Spangler, Paul J. "A New Species of the Aquatic Beetle Genus Dryopomorphus from Borneo (Coleoptera: Elmidae: Larinae)." Proceedings of the Biological Society of Washington 98 (2)(1985): 412-417, 9 figs.
- _____. "A New Genus and Species of Riffle Beetle, Neblinagena prima, from the Venezuelan Tepui, Cerro de la Neblina (Coleoptera: Elmidae: Larinae)." Proceedings of the Entomological Society of Washington 87 (3)(1985): 538-544, 15 figs.
- _____. "Obituary: Oscar Ling Cartwright." Proceedings of the Entomological Society of Washington 87 (3)(1985): 690-698, 1 fig.
- _____. "Five New Species of the Predacious Water Beetle Genus Hydrodessus from Guyana and a Key to the Species (Coleoptera: Dytiscidae)." Proceedings of the Academy of Natural Science of Philadelphia 137 (1985): 80-89, 26 figs.
- Ward, R. A. Second Supplement to "A Catalog of the Mosquitoes of the World (Diptera: Culicidae)." Mosquito Systematics 16 (3)(1984): 227-270.
- Watts, D. M.; Harrison, B. A.; Pantawatana, S.; Klein, T. A.; and Burke, D. S. "Failure to Detect Natural Transovarial Transmission of Dengue Viruses by Aedes Aegypti and Aedes albopictus (Diptera: Culicidae)." Journal of Medical Entomology 22 (3)(1985): 261-265.
- Wolfe, George W., and Spangler, Paul J. "A Synopsis of the Laccornis difformis Species Group With a Revised Key to North American Species of Laccornis Des Gozis (Coleoptera: Dytiscidae)." Proceedings of the Biological Society of Washington 98 (1)(1985): 61-71, 17 figs.

Department of Invertebrate Zoology

- Barbieri, R.; Esteves, F. A.; and Reid, J. W. "Contribution of Two Aquatic Macrophytes to the Nutrient Budget of Lobo Reservoir (Sao Paulo, Brazil)." Verhandlungen der Internationale Vereinigung für Limnologie 22 (1984): 1631-1635.
- Barnard, J. L., and Drummond, M. M. "A New Paracalliopiid, Katocalliope kutyeri, Gen. et Sp. Nov. (Crustacea: Amphipoda) from Queensland." Proceedings of the Royal Society of Victoria 96 (September 1984): 147-153, 4 figs.
- Barnard, J. L., and Thomas, J. D. "Two Species of the Siphonoecetes Complex from the Arabian Gulf and Borneo (Crustacea: Amphipoda)." Proceedings of the Biological Society of Washington 97 (December 1984): 864-881, 9 figs., 1 table.
- Baumann, P. C., and Harshbarger, J. C. "Frequencies of Liver Neoplasia in a Feral Fish Population and Associated Carcinogens" (1985). Third International Symposium on Responses of Marine Organisms to Pollutants, April 17-18, 1985. Plymouth, England: Institute for Marine Environmental Research.
- Bieler, Rudiger. "Morphometrische Analyse der Architectonica maxima-Gruppe im Indo-Pazifik (Mollusca: Gastropoda: Architectonicidae)." Verhandlungen des naturwissenschaftlichen Vereins in Hamburg (NF)27(1984): 453-492.
- _____. "Die Gattungen der Architectonicidae (Gastropoda: 'Heterogastropoda'). Teil 2: Architectonica, Philippia, Stellaxis, Discotectonica, Solatisonax, Climacopoma, Granosolarium." Archiv für Molluskenkunde 115 (4/6) (Frankfurt)(1984)(1985): 231-165.
- Bowman, Thomas E. "The Correct Identity of the Pelagic Amphipod, Primno macropa, with a Diagnosis of Primno abyssalis (Hyperiidæ: Phrosinidae)." Proceedings of the Biological Society of Washington 98 (1): 11-126.
- Bowman, Thomas E.; Garner, Susan P.; Hessler, Robert R.; Iliffe, Thomas M.; and Sanders, Howard L. "Mictacea, a New Order of Crustacea Peracarida." Journal of Crustacean Biology 5 (1): 74-78.
- Bowman, Thomas E., and Iliffe, Thomas M. "Mictocaris halope, a New Unusual Peracaridan Crustacean from Marine Caves on Bermuda." Journal of Crustacean Biology 5 (1): 58-73.
- Bowman, Thomas E., and Wasmer, Robert A. "The Deep-sea Amphipod Paracyphocaris praedator (Gammaridea: Lysianassidae) Associated with the Pelagic Shrimp Oplophorus novaezelandiae as an Egg-mimic." Proceedings of the Biological Society of Washington 97 (4): 844-848.

- Bowman, Thomas E.; Yager, Jill; and Iliffe, Thomas M. "Speonebalia cannoni n. gen., n. sp., from the Caicos Islands, the First Hypogean Leptostracan (Nebaliacea: Nebaliidae)." Proceedings of the Biological Society of Washington 98 (2): 439-446.
- Brakonietcki, T., and Roper, C. F. E. "Lolliguncula argus, a New Species of Loliginid Squid (Cephalopoda: Myopsida) from the Tropical Eastern Pacific." Biological Society of Washington 98 (1)(1985): 47-53.
- Cairns, Stephen D. "New Records of Ahermatypic Corals (Scleractinia) from the Hawaiian and Line Islands." Occasional Papers Bishop Museum 25 (10)(1984): 1-30.
- _____. "An Application of Phylogenetic Analysis to the Scleractinia: Family Fungiidae." Fourth International Symposium of Fossil Cnidaria. Palaeontographica Americana 54 (1984): 49-57.
- _____. "Three new species of Stylasteridae." Proceedings of the Biological Society of Washington 98 (3)(1985): 728-739.
- Chace, Fenner A., Jr. "The Caridean Shrimps (Crustacea: Decapoda) of the Albatross Philippine Expedition, 1907-1910, Part 3: Families Thalassocarididae and Pandalidae." Smithsonian Contributions to Zoology 411 (1985): i-iv, 1-143. Washington, D.C.: Smithsonian Institution Press.
- Chornesky, E. A. Review of "A Reef System: Corals and Coral Reefs of the Galapagos Islands," by P. W. Glynn and G. M. Wellington. Science 2985 (228): 1522-1523.
- Clark, J., and Barnard, J. L. "Lucayrina catacumba, New Genus, New Species, a Bahamian Sea-Cave Amphipod (Crustacea: Amphipoda: Lysianassidae)." Proceedings of the Biological Society of Washington 98 (March 1985): 243-254, 5 figs.
- Cooper, M. R., and Kensley, B. "Endemic South America Permian Bivalve Molluscs from the Ecca of South Africa." Journal of Paleontology 58 (6): 1360-1363.
- Couch, J. A., and Harshbarger, J. C. "Effects of Carcinogenic Agents on Aquatic Animals: An Environmental and Experimental Overview." Journal of Environmental Science and Health, Part C, Environmental Carcinogens, Rev. 3 (1985): 63-105.
- Cressey, Roger. "A New Genus of Bomolochid Copepod from Eastern Pacific Haemulid Fishes." Bulletin of Marine Science 35 (2): 182-186.
- Danielopol, D. L., and Hart, C. W., Jr. "Notes on the Center of Origin and on the Antiquity of the Sphaeromicoloniae, with Description of Hobbsiella, New Genus (Ostracoda: Entocytheridae)." Stygologia 1 (1)(1985): 54-70.
- Fauchald, K. "Polychaete Distribution Patterns, Or: Can Animals With Palaeozoic Cousins Show Large-scale Geographical Patterns." Proceedings of the First International Polychaete Conference (1984): 1-6. Edited by P. A. Hutchings. Sydney: The Linnean Society of New South Wales.

- Gardiner, S. L., and Jones, M. L. "Ultrastructure of Spermiogenesis in the Vestimentiferan Tube Worm Riftia pachyptila (Pogonophora: Obturata)." Transactions of the American Microscopical Society 104 (1)(1985): 19-44.
- Harshbarger, J. C. "Fish Neoplasms: Epizootiology, Experimental Carcinogenesis, Risk and Benefits." In Abstracts and Program of the 11th Annual Aquatic Toxicity Workshop (Vancouver, British Columbia)(November 13-15, 1984): 2 pages.
- Harshbarger, J. C.; Cullen, L. J.; Calabrese, M. J.; Spero, P. M.; Baumann, P. C.; and Parland, W. K. "Epidermal, Hepatocellular and Cholangiocellular Carcinomas in Brown Bullheads, Ictalurus nebulosus, from Industrially Polluted Black River, Ohio." Marine and Environmental Research 14 (1984): 535-536.
- Hart, C. W., Jr.; Manning, R. B.; and Iliffe, T. M. "The Fauna of Atlantic Marine Caves: Evidence of Dispersal by Sea Floor Spreading While Maintaining Ties to Deep Waters." Proceedings of the Biological Society of Washington 98 (1)(1985): 288-292.
- Hart, C. W., Jr.; Manning, R. B.; and Iliffe, T. "The Fauna of Atlantic Marine Caves: Evidence of Dispersal by Sea Floor Spreading While Maintaining Ties to Deep Waters." Proceedings of the Biological Society of Washington 98 (1)(1985): 288-292.
- Hobbs, Horton H., Jr., and Carlson, Paul. "Member of the Genus Distocambarus (Decapoda: Cambaridae) from the Saluda Basin, South Carolina." Proceedings of the Biological Society of Washington 98 (1)(1985): 81-89.
- Houbrick, Richard S. A New "Metula" Species from the Indo-West Pacific (Prosobranchia: Buccinidae). Proceedings of the Biological Society of Washington 97 (2): 420-424.
- _____. "The Giant Creeper, Campanile symbolicum Iredale, an Australian Relict Marine Snail." In Living Fossils: 232-235. Edited by S. Stanley and N. Eldridge. Springer-Verlag.
- _____. "Diastoma melanioides (Reeve), a Relict Snail from South Australia." In Living Fossils: 236-239. Edited by S. Stanley and N. Eldridge. Springer-Verlag.
- _____. "The Relict Cerithiid Prosobranch, Gourmya gourmyi (Crosse)." In Living Fossils: 240-242. Edited by S. Stanley and N. Eldridge. Springer-Verlag.
- _____. "Monograph of the Genus Clypeomorus (Cerithiidae, Prosobranchia)." Smithsonian Contributions to Zoology 403 (1985): 313 pages. Washington, D.C.: Smithsonian Institution Press.
- _____. "Going Collecting? Look for a Live Royella sinon." Hawaiian Shell News, 32 (4): 12.
- Jones, M. L. "The Giant Tube Worms." Oceanus 27 (3)(1984): 47-52.

- Jones, M. L., and Gardiner, S. L. "Light and Scanning Electron Microscopic Studies of Spermatogenesis in the Vestimentiferan Tube Worm Riftia pachyptila (Pogonophora: Obturata)." Transactions of the American Microscopical Society 104 (1): 1-18.
- Kensley, B. "The Atlantic Barrier Reef Ecosystem at Carrie Bow Cay, Belize, III. New Marine Isopoda." Smithsonian Contributions to Marine Sciences 24 (1984): i-iv, 1-81. Washington, D.C.: Smithsonian Institution Press.
- _____. "The Faunal Deposits of a Late Pleistocene Raised Beach at Milnerton, Cape Province, South Africa." Annals of the South African Museum 95 (2)(1985): 111-122.
- Kensley, B., and Heard, R. "A New Species of the Genus Spinianirella Menzies (Crustacea: Isopoda: Janiridae) from the Western Atlantic." Proceedings of the Biological Society of Washington 98 (3): 682-686.
- Kensley, B., and Tobias, W. "Redescription of Heterocarpus laevis A. Milne Edwards (Crustacea: Decapoda: Pandalidae)." Proceedings of the Biological Society of Washington 98 (1): 237-242.
- Kimura, I.; Ando, M.; Kinae, N.; Wakamatsu, Y.; Ozato, K.; and Harshbarger, J. C. "MNNG Induction of Gill Tumors in a Platyfish x Swordtail Fl Hybrid and in Medaka (Oryzias latipes) and Nifurpirinol Induction of Hepatomas in Medaka." In Annual Report Aichi Cancer Center Research Institute 1981-1983 (1984): 60-62. Nagoya, Japan: Arakawa Printing.
- Kornicker, Louis S. "Sexual Dimorphism, Ontogeny, and Functional Morphology of Rutiderma hartmanni Poulsen, 1965 (Crustacea: Ostracoda)." Smithsonian Contributions to Zoology 408 (1985): i-iii, 1-28. Washington, D.C.: Smithsonian Institution Press.
- _____. "Preliminary Report on Myodocopine Ostracoda (Cypridinoidea)" In Peuplements Profonds du Golfe de Gascogne (1985): 409-412. Edited by L. Laubier and C. Monnoit. Ifremer: Service Documentation-Publications Centre de Brest.
- Kornicker, Louis S., and Iliffe, T. M. "Deeveyinae, a New Subfamily of Ostracoda (Halocyprididae) from a Marine Cave on the Turks and Caicos Islands." Proceedings of the Biological Society of Washington 98 (2) 1985: 476-493.
- Lu, C. C.; Roper, C. F. E.; and Tait, R. W. "A Revision of Loliolus (Cephalopoda: Loliginidae), Including L. noctiluca, a New Species of Squid from Australian Waters." Proceedings of the Royal Society of Victoria 19 (2)(1985): 59-85.
- Milliken, M. R., and Williams, Austin B. "Synopsis of Biological Data on the Blue Crab, Callinectes sapidus Rathbun." NOAA Technical Report NMFS. FAO Fisheries Synopsis 1 (138): iv, 39 pages.

- Nowell, A. R. M.; Jumars, P. A.; and Fauchald, K. "The Foraging Strategy of a Subtidal and Deep-sea Deposit Feeder." Limnology and Oceanography 29 (3)(1984): 645-649.
- Pawson, David L. Psychropotes hyalinus, New Species, a Swimming Elasipod Sea Cucumber (Echinodermata: Holothuroidea) from the North Central Pacific Ocean." Proceedings of the Biological Society of Washington 98 (2)(1985): 523-525.
- _____. "Review of Echinoid Paleobiology." Bulletin of Marine Science 36 (2)(1985): 401-402.
- Perez Farfante, I. "New Locality Records for Cryptopenaeus catherinae De Freitas and Benthescymus bartletti S.I. Smith (Decapoda: Penaeoidea)." Crustaceana 48 (3)(1985): 316-318.
- Perez Farfante, I., and Kensley, B. "Cryptopenaeus crosnieri, a New Species of Shrimp, and a New Record of C. sinensis (Penaeoidea: Solenoceridae) from Australian Waters." Proceedings of the Biological Society of Washington 98 (1): 281-287.
- Perez Farfante, I., and Kensley, B. "Cryptopenaeus crosnieri, a New Species of Shrimp, and a New Record of C. sinensis (Penaeoidea: Solenoceridae) from Australian Waters." Proceedings of the Biological Society of Washington 98 (1): 281-287.
- Pettibone, Marian H. "Two New Species of Lepidonotopodium (Polychaeta: Polynoidae: Lepidonotopodinae) from Hydrothermal Vents off the Galapagos and East Pacific Rise at 21°N." Proceedings of the Biological Society of Washington 97 (4)(1984): 849-863.
- _____. "Polychaete Worms from a Cave in the Bahamas and from Experimental Wood Panels in Deep Water of the North Atlantic (Polynoidae: Macellicephalinae: Harmothoinae)." Proceedings of the Biological Society of Washington 98 (1)(1985): 127-149.
- _____. "An Additional New Scale Worm (Polychaeta: Polynoidae) from the Hydrothermal Rift Area off Western Mexico at 21°N." Proceedings of the Biological Society of Washington 98 (1)(1985): 150-157.
- _____. "Additional Branchiate Scale-worms (Polychaeta: Polynoidae) from Galapagos Hydrothermal Vent and Rift-area off Western Mexico at 21°." Proceedings of the Biological Society of Washington 98 (2)(1985): 447-469.
- _____. "New Genera and Species of Deep-sea Macellicephalinae and Harmothoinae (Polychaeta: Polynoidae) from the Hydrothermal Rift Areas off the Galapagos and Western Mexico at 21°N. and from the Santa Catalina Channel." Proceedings of the Biological Society of Washington 98 (3)(1985): 740-757.
- Reams, R. C., and Williams, Austin B. "The Mud Crab Panopeus herbstii, H. M. Edw., s.l. Populations in Alabama, U.S.A." Fishery Bulletin 81 (4)(1984 for 1983): 885-890.

- Rehder, Harald A. "Cypraea thomasi Cross: A Valid Species." Levantina: A Malacological Review 49 (1984): 563-565. Israel Malacological Society.
- _____. "Williamia Monterosato 1884 (Mollusca: Gastropoda): Proposed Conservation. Z. N. (S.)2237." Bulletin of Zoological Nomenclature 41 (3)(1984): 159-162.
- Reid, J.W., and Esteves, F.A. "Consideracoes ecologicas e biogeograficas sobre a fauna de copepodos (Crustacea) planctonicos e bentonicos de 14 lagoas costeiras do Estado do Rio de Janeiro, Brasil" [Ecological and Biogeographical Considerations on the Planktonic and Benthic Copepod (Crustacea) Fauna of 14 Coastal Ponds, State of Rio de Janeiro, Brazil]. In Restingas: Origem, Estrutura, Processos (1984): 305-326. Edited by L. D. Lacerda, D. S. D. Araujo, R. Cerqueira, and B. Turcq. Rio de Janeiro: CEUFF, Niteroi.
- Rice, Mary E. "Description of a Wood Dwelling Sipunculan, Phascolosoma turnerae, New Species. Proceedings of the Biological Society of Washington 98 (1)(1985): 54-60.
- Rice, Mary E., and Reichardt, H. F. "Larval Development and Metamorphosis of Siphonosoma cumanense (Keferstein, 1867) (Sipuncula)." American Zoologist 24 (3)(1984): 242.
- Roper, C. F. E. "S. Stillman Berry (1887-1984): A Tribute Through Glimpses and Reflections." American Malacological Union Bulletin 3 (1)(1985): 55-61.
- _____. "Is There a Squid in Your Future: Perspectives for New Research." In Perspectives in Malacology. American Malacological Union Bulletin, Special Edition no. 1: 93-100.
- Schiff, H.; Abbott, B. C.; and Manning, R. B. "Possible Monocular Range-finding Mechanisms in Stomatopods from Different Environmental Light Conditions." Comparative Biochemistry and Physiology 80A (3)(1985): 271-280.
- Schiff, H., and Manning, R. B. "Description of a Unique Crustacean Eye." Journal of Crustacean Biology 4 (4)(1984): 604-614.
- Suarez, M. F.; Ayala, D.; Nelson, M. J.; and Reid, J. W. "Hallazgo de Mesocyclops aspericornis (Daday)(Copepoda: Cyclopidae) depredador de larvas de Aedes aegypti en Anapoima Colombia." [Occurrence of Mesocyclops aspericornis (Daday)(Copepoda: Cyclopidae) Predator of Larvae of Aedes aegypti in Anapoima - Colombia]. Biomedica 4 (2)(1984): 74-76.
- Sullivan, B.; Miller, K.; Singleton, K.; Scheer, A. G.; and Williams, Austin B. "The Mud Crab Panopeus herbstii H. M. Eds., s.l. Electrophoretic Analyses of Hemocyanins from Four Forms With Observations on the Ecology of Form obesa." Fishery Bulletin 81 (4)(1984 for 1983): 883-885.
- Sweeney, M. J., and Roper, C. F. E. "The Zoological Taxa and Bibliography of S. Stillman Berry." American Malacological Union Bulletin 3 (1)(1985): 63-82.

- Thomas, J. D., and Barnard, J. L. "Acanthohaustorius pansus, a New Species of Sand-Burrowing Amphipod from Looe Key Reef, Florida Keys, with Redescription and Distribution Data of Acanthohaustorius bousfieldi Frame, 1980 (Amphipoda: Haustoriidae)." Proceedings of the Biological Society of Washington 97 (December 1984): 909-926, 9 figs.
- _____. "Perioculodes cerasinus N. Sp., the First Records of the Genus from the Caribbean Sea (Amphipoda: Oedicerotidae)." Proceedings of the Biological Society of Washington 98 (March 1985): 98-106, 3 figs.
- _____. "Two New Species of Two New Gammaridean Genera (Crustacea: Amphipoda) from the Florida Keys." Proceedings of the Biological Society of Washington 98 (March 1985): 191-203, 7 figs.
- Van Dover, C. L.; Williams, Austin B.; and Factor, J. R. "The First Zoeal Stage of a Hydrothermal Vent Crab (Decapoda: Brachyura: Bythograeidae)." Proceedings of the Biological Society of Washington 97 (2)(1984): 413-418.
- Williams, Austin B. "The Mud Crab Panopeus herbstii, s.l. Partition Into Six Species (Decapoda: Xanthidae)." Fishery Bulletin 81 (4)(1984 for 1983): 863-882.

Department of Mineral Sciences

- Appleman, D. E.; Dana, James D.; and Pacific Geology. In Magnificent Voyagers. Washington, D.C.: Smithsonian Institution Press. To be published October 1, 1985.
- Bish, D. L., and Post, J. E. "Thermal Behavior of Todorokite and Romanechite." Geological Society of America 16 (446) (1984): (abstract).
- Bowes, W. A.; Kutina, J.; Asker, S. K.; Fredriksson, K.; and Golightly, D. W. "A Porphyry-type Mo-Cu Discovery at Granite Mountain, Nevada." Global Tectonics and Metallurgy 1 (1985): 402-439.
- Chamberlain, C. P.; Docka, J. A.; Post, J. E.; and Burnham, C. W. "Scapolite: Alkali Atom Configurations, Antiphase Domains, and Compositional Variations." American Mineralogist 70 (1985): 134-140.
- Clarke, R. S., Jr. "Structural Development in the Santa Catharina Meteorite." Meteoritics 19 (1984): 207-208(abstract).
- Clarke, R. S., Jr.; Sallamuthu, R.; and Goldstein, J. I. "Massive Schribersite in the Bellsbank and Santa Luzia Meteorites." Meteoritics 19 (1984): 208 (abstract).

- Dunn, P. J.; Rouse, R. C.; and Nelen, J. A. "Englishite, New Chemical Data and a Second Occurrence, from the Tip Top Pegmatite, Custer, South Dakota." Canadian Mineralogist 22 (1984): 469-470.
- Dunn, P. J.; Peacor, D. R.; and Simmons, W. B. "Retzian - (La), a New Mineral from Sterling Hill, Sussex County, New Jersey." Mineralogical Magazine 48 (1984): 533-535.
- Dunn, P. J. "Barian Muscovite from Franklin, New Jersey." Mineralogical Magazine 48 (1984): 562-563.
- Dunn, P. J., and Rouse, R. C. "Freedite and Thorikosite from Langban, Sweden, and Laurion, Greece: Two New Species Related to the Synthetic Bismuth Oxyhalides." American Mineralogist 70 (1985): 845-848.
- Dunn, P. J.; Petersen, E. U.; and Peacor, D. R. "Turneaureite, a New Member of the Apatite Group from Franklin, New Jersey, Balmat, New York, and Langban, Sweden." Canadian Mineralogist 23 (1985): 251-254.
- Dunn, P. J. "Manganese Humites and Leucophoenicites from Franklin and Sterling Hill, New Jersey: Parageneses, Compositions, and Implications for Solid Solution Limits." American Mineralogist 70 (1985): 379-387.
- Dunn, P. J.; Peacor, D. R.; Simmons, W. B.; and Gaines, R. V. "Sverigeite, a New Tin Beryllium Silicate Mineral from Langban, Varmland, Sweden." Geologiska Foreningens Forhanlingar i Stockholm 106 (1984): 175-177.
- Dunn, P. J., and Ferraiolo, J. A. "Memorial of Earl Shannon." American Mineralogist 69 (1984): 993.
- Dunn, P. J.; Peacor, D. R.; Leavens, P. B.; and Wicks, F. J. "Minehillite, a New Layer Silicate Related to Reyerite and Truscottite." American Mineralogist 69 (1984): 1150-1155.
- Etz, E. S.; Newbury, D. E.; Dunn, P. J.; and Grice, J. D. "Application of Synergistic Microanalysis Techniques to the Study of a Possible New Mineral Containing Light Elements." Microbeam Analysis - 1985 (1985): 60-64.
- Fredriksson, K.; Clarke, R. S., Jr.; and Pugh, R. "A New H-3 Chondrite from Study Butte, Texas." Meteoritics 19 (4): 225-226 (abstract).
- Fredriksson, K.; Murty, S. V. S.; and Marti, K. "Some Chemical and Isotopic Observations in Chondrules." Meteoritics 20 (2/2): 347-357.
- Fiské, R. S., and Nielsen, E. "Church's Cotopaxi: A Modern Volcanological Perspective." In Creation and Renewal, Views of Cotopaxi by Frederic Edwin Church (1985): 1-6. Washington, D.C.: Smithsonian Institution Press.
- Grice, J. D.; Van Velthuisen, J.; and Dunn, P. J. "A New Yttrium-borate-carbonate Mineral from the Evans-Lou Pegmatite, Quebec, Geological Association of Canada/Mineralogical Association of Canada, 1985 Joint Meeting, Programs with Abstracts (1985): A23.

- Grice, J. D.; Peacor, D. R.; Robinson, G. W.;
Van Velthuizen, J.; Roberts, W. L.; Campbell, T. J.; and
Dunn, P. J. "Tiptopite,
(Li, K, Na, Ca)₈Be₆(PO₄)₆(OH)₄, a New Mineral
Species from the Black Hills, South Dakota." Canadian
Mineralogist 23 (1985): 43-46.
- Hinton, R. W.; Grossman, L.; and MacPherson, G. J. "Magnesium
and Calcium Isotopes in Hibonite-bearing CAI's." Meteoritics 19 (1984): 240-241 (abstract).
- Jarosewich, E., and Dodd, R. T. "Chemical Variations Among
L-chondrites- IV." Analyses, with petrographic notes of 13
L-group and 3 LL-group chondrites. Meteoritics 20 (1985):
23-36.
- MacPherson, G. J.; Grossman, L.; Hashimoto, A.;
Bar-Matthews, M.; and Tanaka, T. "Petrographic Studies of
Refractory Inclusions from the Murchison Meteorite." Journal of Geophysical Research Supplement 89 (1984):
C299-C312.
- MacPherson, G. J., Grossman, L. "Accretionary Rims on
Inclusions in Allende: Clues to the Accretion of the
Allende Parent Body." Geochimica et Cosmochimica Acta. In
press.
- MacPherson, G. J. Refractory Inclusions in the Mighei C2
Meteorite. Meteoritics 19 (1984): 262-263 (abstract).
- MacPherson, G. J., and Delaney, J. S. "A Fassaite-two
olivine-pleonaste-bearing Refractory Inclusion from
Karoonda." Lunar and Planetary Science 16: 515-516
(abstract).
- Melson, W. G. "Alternation Between Acidic and Basic Magmas in
Major Explosive Eruptions of Arenal Volcano, Costa Rica." Boletín de Volcanología (Universidad Nacional, Costa Rica)
14 (1985): 65-76.
- Murase, T.; McBirney, A. R.; and Melson, W. G. "Viscosity of
the Dome of Mount St. Helens." Journal Volcanology and
Geothermal Research 24 (1985): 193-204.
- Oen, I. S.; Dunn, P. J.; and Kieft, C. "The Nickel Arsenide
Assemblage from Franklin, New Jersey." Neues Jahrbuch für
Mineralogie, Abhandlungen 150 (1984): 259-272.
- Pagoaga, K.; Appleman, D. E.; and Stewart, J. M. "Protasite,
a New Mineral of the Uranyl Oxide Hydrate Group." Mineralogical Magazine. In press.
- Peacor, D. R.; Dunn, P. J.; and Simmons, W. B.
"Earlshannonite, the Mn Analogue of Whitmoreite, from North
Carolina." Canadian Mineralogist 22 (1984): 472-474.
- Peacor, D. R.; Dunn, P. J.; and Simmons, W. B. "Paulkerrite,
a New Titanium Phosphate from Arizona." Mineralogical
Record 15 (1984): 303-306.
- Peacor, D. R.; Dunn, P. J.; Ramik, R. A.; Campbell, T. J.; and
Roberts, W. L. "A Wicksite-like Mineral from the Bull
Moose Mine, South Dakota." Canadian Mineralogist 23
(1985): 247-249.

- Peacor, D. R.; Dunn, P. J.; Ramik, R. A.; Sturman, B. D.; and Zeihen, L. G. "Philipsburgite, a New Copper Zinc Arsenate Hydrate Related to Kipushite, from Montana." Canadian Mineralogist 23 (1985): 255-258.
- Peacor, D. R.; Dunn, P. J.; Schnorrer-Kohler, G.; and Bideaux, R. A. "Mammothite, a New Mineral from Tiger, Arizona, and Laurium, Greece." Mineralogical Record 16 (1985): 117-120.
- Peacor, D. R., and Dunn, P. J. "Sodium-pharmacosiderite, a New Analog of Pharmacosiderite from Australia, and New Occurrences of Barium-pharmacosiderite from Australia." Mineralogical Record 16 (1985): 121-124.
- Petersen, O. V.; Bollhorn, J.; and Dunn, P. J. "A Highly Magnesian Alleghanyite from Sterling Hill, New Jersey." Mineralogical Record 15 (1984): 299-302.
- Post, J. E., and Busek, P. R. "Quantitative Energy Dispersive Analysis of Lead Halide Particles from the Phoenix Urban Aerosol." Environmental Science and Technology. In press.
- Post, J. E., and Burnham, C. W. "Disordering in High Albite: Insights from Electrostatic Energy Minimizations." Geological Society of America Abstracts 16: 625 (abstract).
- Rachlin, A. L.; Mandarino, J. A.; Ramik, R. A.; Murowchick, B. L.; and Dunn, P. J. "Mineralogy of Hilgardite from New Brunswick." Geological Association of Canada/Mineralogical Association of Canada, 1985 Joint Meeting, Programs with Abstracts (1985): A50.
- Rouse, R. C., and Dunn, P. J. "A Re-examination of Sahlintie." Neues Jahrbuch für Mineralogie Monatshefte (1985): 127-131.
- Rouse, R. C., and Dunn, P. J. "The Structure of Thorikosite, a Naturally Occuring Member of the Bismuth Oxyhalide Group." Journal of Solid State Chemistry 57 (1985).
- Rouse, R. C.; Dunn, P. J.; and Peacor, D. R. "Hedyphane from Franklin, New Jersey, and Langban, Sweden: Cation Ordering in an Arsenate Apatite." American Mineralogist 69 (1984): 920-927.
- Roy-Poulsen, H.; Larsen L.; Roy-Poulsen, N. O.; Vistisen, L.; and Clarke, R. S., Jr. "Mossbauer Spectroscopy and X-ray Diffraction of Samples from the Santa Catharina Iron Meteorite." Meteoritics 19 (1984): 303 (abstract).
- Rubin, A. E.; James, J. A.; Keck, B. D.; Weeks, K. S.; Sears, D. G.; and Jarosewich, E. "The Colony Meteorite and Variations in CO₃ Chondrite Properties." Meteoritics 20 (1985): 175-196.
- Simkin, T. S., and McClelland, L. "Spurred by Events, Volcanology Thrives." Geotimes 29 (1984): 15-16.

- Sorensen, S. S. "Petrologic Evidence for Jurassic, Island-arc Like Basement Rocks in the Southwestern Transverse Ranges and Southern California Borderland." Geological Society of America Bulletin. In press.
- _____. "Trace Element Effects of Eclogite/Peridotite Metasomatism, Catalina Schist Terrane, Southern California." Geological Society of America Abstracts, with Programs 16 (1984): 663 (abstract).
- _____. "Metamorphism of Jurassic, Island-arc-basement Rocks from the Transverse Ranges and Southern California Borderland." Geological Society of America Abstracts 17 (1985): 410.
- Stolper, E.; MacPherson, G. J.; Beckett, J. R.; and Grossman, L. "Thermometry of Ca-Al-rich Inclusions." Lunar Planetary Science 16: 827-828 (abstract).
- Walenta, K., and Dunn, P. J. "Arsenogoyazit, ein neues Mineral der Crandallitgruppe aus dem Schwarzwald." Schweizerische Mineralogische und Petrographische Mitteilungen 64 (1984): 11-19.
- White, J. S. "Vanadinite from Touissit, Morocco, and Comments on Endlichite." Mineralogical Record 15 (1984): 347-350.

Department of Paleobiology

- Anastasakis, G. C., and Stanley, D. J. "Sapropels and Organic-rich Variants in the Mediterranean: Sequence Development and Classification." Edited by D. A. V. Stow and D. J. W. Piper. In Fine-Grained Sediments: Deep Water Processes and Facies: Geological Society of London Special Publication 15 (1984): 497-510. Oxford: Blackwell Scientific Publications.
- Barnes, L. G.; Domning, D. P.; and Ray, C. E. "Status of Studies on Fossil Marine Mammals." Marine Mammal Science 1 (1)(1985): 15-53.
- Behrensmeyer, A. K. "Taphonomy: New Insights for the Fossil Record." American Scientist 72 (6)(1984): 558-66.
- _____. "Miocene Fluvial Facies and Vertebrate Taphonomy in Pakistan." Third International Fluvial Sedimentology Conference, August 7-9, 1985, Fort Collins, Colorado: Abstract Volume (1985): 8 (abstract).
- Behrensmeyer, A. K., and Kidwell, S. M. "Taphonomy's Contributions to Paleobiology." Paleobiology 11 (1)(1985): 105-19.
- Benson, R. H. "Estimating Greater Paleodepths with Ostracodes, Especially in Past Thermospheric Oceans." Palaeogeography, Palaeoclimatology, Palaeoecology 48 (1)(1984): 107-41.

- Cheetham, A. H. "Mechanical Vs. Spatial Constraints on Arborescent Growth in Evolution of Cheilostome Bryozoans." In Geological Society of America Abstracts with Programs, Northeastern Section Meeting 17 (1)(1985): 10 (abstract).
- _____. "Branching, Biomechanics and Bryozoan Evolution." In Discussion Meeting on Growth and Form of Modular Organisms, London, England, June 27-28, 1985, Abstracts (1985): 3 (abstract). London: The Royal Society.
- Culver, S. J., and Buzas, M. A. "Distribution of Recent Benthic Foraminifera off the North American Pacific Coast: Oregon to Alaska." Smithsonian Contributions to the Marine Sciences, no. 26 (1985). Washington, D.C.: Smithsonian Institution Press.
- Gerges, M. A., and Stanley, D. J. "Assessing Hydrography and Man's Influence on Sediments in the Northern Suez Canal." Marine Geology 65 (3/4)(1985): 325-31.
- Graus, R. R.; Macintyre, I. G.; and Herchenroder, B. E. "Environmental Control of Caribbean Reef Zonation: Experiments in Computer Simulation." In Joint Meeting of the Atlantic Reef Committee and the International Society for Reef Studies, Miami, Florida, October 26-28, 1984, Abstracts (1984): 45 (abstract). Miami: University of Miami.
- _____. "Computer Simulation of the Holocene Facies History of a Caribbean Fringing Reef, Galeta Point, Panama." In Proceedings of the Fifth International Coral Reef Congress, Tahiti, 27 May-1 June, 1985: Volume 2, Abstracts (1985): 154. Edited by C. Gabrie, J. L. Toffart, and B. Salvat. Moorea, French Polynesia: Antenne Museum-EPHE.
- Hill, Andrew, and Behrensmeyer, A. K. "Disarticulation Patterns of Some Modern East African Mammals." Paleobiology 10 (3)(1984): 366-76.
- _____. "More Natural Disarticulation and Butchery." American Antiquity 50 (1)(1985): 141-45.
- Macintyre, I. G. "Preburial and Shallow-Subsurface Alteration of Modern Scleractinian Corals." In Recent Advances in the Paleobiology and Geology of the Cnidaria, Proceedings of the Fourth International Symposium on Fossil Cnidaria, Washington, D.C., August, 1983; Palaeontographica Americana, no. 54 (1984): 229-44. Edited by W. A. Oliver, W. J. Sando, S. D. Cairns, A. G. Coates, I. G. Macintyre, F. M. Bayer, and J. E. Sorauf. Ithaca, New York: Paleontological Research Institute.
- _____. "Submarine Cements - The Peloidal Question." In Carbonate Cements: Society of Economic Paleontologists and Mineralogists Special Publication, no. 36 (1985): 109-16. Edited by N. Schneidermann and P. M. Harris. Tulsa: Society of Economic Paleontologists and Mineralogists.

- Macintyre, I. G.; Multer, H. G.; Zankl, H. L.; Hubbard, D. K.; Weiss, M. P.; and Stuckenrath, R. "Growth and Depositional Facies of a Windward Reef Complex, Nonsuch Bay, Antigua, W.I." In Proceedings of the Fifth International Coral Reef Congress, Tahiti, 27 May-1 June, 1985: Volume 2, Abstracts (1985): 260. Edited by C. Gabrie, J. L. Toffart, and B. Salvat. Moorea, French Polynesia: Antenne Museum-EPHE.
- Mamay, S. H., and Reed, B. L. "Permian Plant Megafossils from the Conglomerate of Mount Dall, Central Alaska Range." In The United States Geological Survey in Alaska: Accomplishments During 1981; United States Geological Survey Circular 868 (1984): 98-102. Edited by W. L. Coonrad and R. L. Elliott. Reston: United States Geological Survey.
- Mamay, S. H.; Miller, J. L.; and Rohr, D. M. "Late Leonardian Plants from West Texas: The Youngest Paleozoic Plant Megafossils in North America." Science 223 (4633)(1984): 279-81.
- Neumann, A. C., and Macintyre, I. G. "Reef Response to Sea Level Rise: Keep-up, Catch-up, or Give-up." In Proceedings of the Fifth International Coral Reef Congress, Tahiti, 27 May-1 June 1985: Volume 2, Abstracts (1985): 266. Edited by C. Gambrie, J. L. Toffart, and B. Salvat. Moorea, French Polynesia: Antenne Museum-EPHE.
- Oliver, W. A.; Sando, W. J.; Cairns, S. D.; Coates, A. G.; Macintyre, I. G.; Bayer, F. M.; and Sorauf, J. E. Recent Advances in the Paleobiology and Geology of the Cnidaria, Proceedings of the Fourth International Symposium on Fossil Cnidaria, Washington, D.C., August, 1983; Palaeontographica Americana, no. 54 (1984). Ithaca, New York: Paleontological Research Institute.
- Pierce, J. W.; Correll, D. L.; Goldberg, Bernard; and Klein, W. H. "Variability in Concentration of Suspensates in an Estuarine Environment." Geo-Marine Letters 4 (3-4)(1984-1985): 153-55.
- Ray, C. E. "Fossil Seals from the Calvert Formation of the Pamunkey River, Hanover County, Virginia." In Stratigraphy and Paleontology of the Outcropping Tertiary Beds in the Pamunkey River Region, Central Virginia Coastal Plain, Guidebook for the 1984 Field Trip, Atlantic Coastal Plain Geological Association (1984): 232-35. Edited by L. W. Ward and Kathleen Krafft. Norfolk: Old Dominion University.
- Ray, C. E., and Sanders, A. E. "Pleistocene Tapirs in the Eastern United States." In Contributions in Quaternary Vertebrate Paleontology: A Volume in Memorial to John E. Guilday: Special Publication of Carnegie Museum of Natural History, no. 8 (1984): 283-315. Edited by H. H. Genoways and M. R. Dawson. Pittsburgh: Carnegie Museum of Natural History.

- Shipp, R. C.; Staples, S. A.; and Adey, W. H. "Geomorphologic Trends in a Glaciated Coastal Bay: A Model for the Maine Coast." Smithsonian Contributions to the Marine Sciences, no. 25 (1985). Washington, D.C.: Smithsonian Institution Press.
- Sorauf, J. E., and Macintyre, I. G. "Diagenesis of Carbonate Material: Implications for the Study of Fossil Cnidaria - Introduction, Invitational Symposium." In Recent Advances in the Paleobiology and Geology of the Cnidaria; Proceedings of the Fourth International Symposium on Fossil Cnidaria, Washington, D.C., August, 1983; Palaeontographica Americana, no. 54 (1984): 227-28. Edited by W. A. Oliver, W. J. Sando, S. D. Cairns, A. G. Coates, I. G. Macintyre, F. M. Bayer, and J. E. Sorauf. Ithaca, New York: Paleontological Research Institute.
- Stanley, D. J. "Mud Redeposition and Problems of Assessing Microfossil, Isotopic, and Radiocarbon Data in the Mediterranean." Marine Geology 62 (3/4)(1984): 381-89.
- _____. "Unifites: Structureless Muds of Gravity-Flow Origin in Mediterranean Basins." Rapport de la Commission Internationale pour l'Exploration Scientifique de la Mer Mediterranee, December, 1982, Cannes, France 28 (1984): 199-201.
- _____. "Symposium on Sedimentology in the Mediterranean Summary Report." XXIXth Congress, Commission Internationale pour l'Exploration Scientifique de la Mer Mediterranee, October 11-19, 1984, Lucerne, Switzerland (1984).
- _____. "Mud Redepositional Processes as a Major Influence on Mediterranean Margin-Basin Sedimentation." In Geological Evolution of the Mediterranean Basin (1985): 337-410. Edited by D. J. Stanley and F. C. Wezel. New York: Springer-Verlag.
- Stanley, D. J., and Wezel, F. C. eds. Geological Evolution of the Mediterranean Basin (1985). New York: Springer-Verlag.
- Stanley, D. J.; Nelsen, T. A.; and Stuckenrath, R. "Recent Sedimentation on the New Jersey Slope and Rise." Science 226 (4671)(1984): 125-33.
- Waller, T. R. "Jurassic 'Malleidae' and the Distinction between Ostreoida and Pterioda (Mollusca: Bivalvia)." Journal of Paleontology 59 (3)(1985): 768-69.
- Westgate, J. W., and Emry, R. J. "Land Mammals of the Crow Creek Local Fauna, Late Eocene, Jackson Group, St. Francis County, Arkansas." Journal of Paleontology 59 (1)(1985): 242-48.

- Whitmore, F. C., Jr. "Cetaceans from the Calvert and Eastover Formations, Pamunkey River, Virginia." In Stratigraphy and Paleontology of the Outcropping Tertiary Beds in the Pamunkey River Region, Central Virginia Coastal Plain, Guidebook for the 1984 Field Trip, Atlantic Coastal Plain Geological Association (1984): 227-31. Edited by L. W. Ward and Kathleen Krafft. Norfolk: Old Dominion University.
- _____. "Land Mammals from the Calvert Formation, Pamunkey River, Virginia." In Stratigraphy and Paleontology of the Outcropping Tertiary Beds in the Pamunkey River Region, Central Virginia Coastal Plain, Guidebook for the 1984 Field Trip, Atlantic Coastal Plain Geological Association (1984): 236-39. Edited by L. W. Ward and Kathleen Krafft. Norfolk: Old Dominion University.
- _____. Review of "American Science in the Age of Jefferson," by J. C. Green. Earth Sciences History 3 (2)(1984): 188-90.
- _____. Review of "Sea of Slaughter," by Farley Mowat. Audubon Naturalist News 11 (4)(1985): 8.
- Wing, S. L. "A New Basis for Recognizing the Paleocene Eocene Boundary in Western Interior North America." Science 226 (4673)(1984): 439-41.
- _____. Review of "Catastrophes and Earth History." Edited by W. A. Berggren and J. A. Van Couvering. Earth Sciences History 3 (2)(1984): 190-91.
- _____. "Impressions of Fallen Leaves." Earth Science 37 (4)(1984): 16-17.
- _____. "Eocene and Oligocene Vegetation of the Northern Rocky Mountains." In Proceedings of the Pacific Division, American Association for the Advancement of Science, 66th Annual Meeting, University of Montana, Missoula, June 9-14, 1985, Program with Abstracts 4 (part 1)(1985): 43 (abstract).
- Wing, S. L., and Bown, T. M. "Fine Scale Reconstruction of the Late Paleocene-Early Eocene Paleogeography in the Bighorn Basin of Northern Wyoming." In Cenozoic Paleogeography of the West Central United States, Rocky Mountain Symposium 3 (1985): 93-105. Edited by R. M. Flores and S. Kaplan. Denver: Rocky Mountain Section, Society of Economic Paleontologists and Mineralogists.
- _____. "Late Paleocene-Early Eocene Paleogeography of the Bighorn Basin, Wyoming." In Society of Economic Paleontologists and Mineralogists, Annual Midyear Meeting, Golden, Colorado, August 11-14, 1985, Abstracts 2 (1985): 98 (abstract).
- Wing, S. L., and Tiffney, B. H. "Evolution of Angiosperms and Terrestrial Herbivores." In Third International Congress of Systematic and Evolutionary Biology, Brighton, Sussex, England, July 4-10, 1985: Abstract Volume (1985): 214 (abstract).

- Yochelson, E. L. The National Museum of Natural History (1985). Washington, D.C.: Smithsonian Institution Press.
- _____. Review of "Disclosing the Past," by Mary Leakey. Science Books and Films 20 (4)(1985): 200.
- _____. Review of "Discoverers of the Lost World," by G. G. Simpson. Science Books and Films 20 (4)(1985): 201.
- Yochelson, E. L., and Nuelle, L. M. "Strepsodiscus (Gastropoda) in the Late Cambrian of Missouri." Journal of Paleontology 59 (3)(1985): 733-40.
- Yochelson, E. L.; Boyd, D. W.; and Wardlaw, B. R. "Redescription of Bellerophon bittneri (Gastropoda: Triassic) from Wyoming." Contributions to Geology 23 (2)(1985): 99-104.

Department of Vertebrate Zoology

- Ahlstrom, E. H.; Richards, W. J.; and Weitzman, S. H. "Families Gonostomatidae, Sternoptychidae, and Associated Stomiiform Groups: Development and Relationships." In Ontogeny and Systematics of Fishes (1984): 184-198. Edited by H. G. Moser and W. J. Richards. American Society of Ichthyologists and Herpetologists.
- Anderson, W. D., Jr., and Johnson, G. D. "A New Species of Callanthias (Pisces: Perciformes: Percoidei: Callanthiidae) from the Southeastern Pacific Ocean." Proceedings of the Biological Society of Washington 97 (4)(1984): 942-950.
- Beehler, Bruce M. "Conservation of New Guinea Rainforest Birds." International Council for Bird Preservation Technical Publication, no. 4 (1985): 233-247.
- Carleton, Michael D. "Macroanatomy." In Biology of New World Microtus, Special Publication no. 8 (1985): 116-175. Edited by R. H. Tamarin. American Society of Mammalogists.
- Cooke, Richard G., and Olson, Storrs L. "An Archaeological Record for the White-faced Whistling-duck (Dendrocygna viduata) in Central Panama." Condor 86 (4)(1984): 493-494.

- Gibbs, Robert H., Jr. "Astronesthidae." In Fishes of the North-eastern Atlantic and the Mediterranean (1984): 325-335. Edited by P. J. P. Whitehead, et al. Paris: UNESCO.
- _____. "Chauliodontidae." In Fishes of the North-eastern Atlantic and the Mediterranean (1984): 336-337. Edited by P. J. P. Whitehead, et al. Paris: UNESCO.
- _____. "Stomiidae." In Fishes of the North-eastern Atlantic and the Mediterranean (1984): 338-340. Edited by P. J. P. Whitehead, et al. Paris: UNESCO.
- _____. "Melanostomiidae." In Fishes of the North-eastern Atlantic and the Mediterranean (1984): 341-365. Edited by P. J. P. Whitehead, et al. Paris: UNESCO.
- _____. "Malacosteidae." In Fishes of the North-eastern Atlantic and the Mediterranean (1984): 366-370. Edited by P. J. P. Whitehead, et al. Paris: UNESCO.
- _____. "Idiacanthidae." In Fishes of the North-eastern Atlantic and the Mediterranean (1984): 371-372. Edited by P. J. P. Whitehead, et al. Paris: UNESCO.
- Gomon, Janet R., and Gibbs, Robert H., Jr. "Taxonomy and Distribution of the Stomioid Fish Genus Eustomias (Melanostomiidae), II: Biradiostomias, New Subgenus." Smithsonian Contributions to Zoology 409 (1985): i-iii, 1-58.
- Handley, Charles. "New Species of Mammals from Northern South America: A Long-Tongued Bat, Genus Anoura Gray." Proceedings of the Biological Society of Washington 97 (3)(1984): 513-521.
- _____. "The Black-Headed Gull Inland in Virginia (March 1983-January 1985)." The Raven 54 (1)(1985): 18-20.
- Hansen, Larry J.; Perrin, William F.; Sokolov, Anatoli S.; and Mead, James G. "A List of American and Soviet Institutions Possessing Collections of Osteological Specimens from Pinnipeds and Sea Otters." In Soviet-American Cooperative Research on Marine Mammals 1 (1984): 101-104. Pinnipeds. Edited by F. H. Fay and G. A. Fedoseev.
- Heyer, W. Ronald. "Variation, Systematics, and Zoogeography of Eleutherodactylus quentheri and Closely Related Species (Amphibia: Anura: Leptodactylidae)." Smithsonian Contributions to Zoology 402 (1984): 1-42.
- _____. "Taxonomic and Natural History Notes on Frogs of the Genus Centrolenella (Amphibia: Centrolenidae) from Southeastern Brasil and Adjacent Argentina." Papeis Avulsos de Zoologia 36 (1)(1985): 1-21.
- _____. "The Systematic Status of Adenomera griseigularis Henle, with Comments on Systematic Problems in the Genus Adenomera (Amphibia: Leptodactylidae)." Amphibia-Reptilia 5 (2)(1985): 97-100.

- Keene, M. J., and Tighe, K. A. "Beryciformes: Development and Relationships." In Ontogeny and Systematics of Fishes, Special Publication no. 1 (1984): 383-392. Edited by H. G. Moser, et al. American Society of Ichthyologists and Herpetologists.
- Mead, James G. Review of "Strandings, Ways to Save Whales: A Humane Conservationists Guide," by F. D. Robson. African Wildlife 38 (4)(1984): 168-169.
- _____. "Survey of Reproductive Data for the Beaked Whales (Ziphiidae)." Reports of the International Whaling Commission, Special Issue no. 6 (1984): 91-96.
- Mead, James G., and Mitchell, Edward D. "Atlantic Gray Whales." In The Gray Whale (1984): 33-53. Edited by M. L. Jones, S. L. Swartz, and S. Leatherwood.
- Olson, Storrs L. "A Brief Synopsis of the Fossil Birds from the Pamunkey River and Other Tertiary Marine Deposits in Virginia." Stratigraphy and Paleontology of the Outcropping Tertiary Beds in the Pamunkey River Region, Central Virginia Coastal Plain. Guidebook for the 1984 Field Trip Atlantic Coastal Plain Geological Association (1984): 217-223. Edited by Lauck W. Ward and Kathleen Krafft. Norfolk: Atlantic Coastal Plain Geological Association.
- _____. "The Last St. Kitts Bullfinch Loxiqilla portoricensis grandis (Emberizinae) and the Extinction of Its Race." Bulletin of the British Ornithologists' Club 104 (4)(1984): 121-123.
- _____. "The Relationships of the Extinct Chatham Island Eagle." Notornis 31 (4)(1984): 273-277.
- _____. "A Hamerkop from the Early Pliocene of South Africa (Aves: Scopidae)." Proceedings of the Biological Society of Washington 97 (4)(1984): 736-740.
- _____. "Evidence of a Large Albatross in the Miocene of Argentina (Aves: Diomedidae)." Proceedings of the Biological Society of Washington 97 (4)(1984): 741-743.
- _____. "A New Species of Siphonorhis from Quaternary Cave Deposits in Cuba (Aves: Caprimulgidae)." Proceedings of the Biological Society of Washington 98 (2)(1985): 526-532.
- _____. "The Italian Specimen of Bulweria fallax (Procellariidae)." Bulletin of the British Ornithologists' Club 105 (1)(1985): 29-30.
- _____. "Weights of Some Cuban Birds." Bulletin of the British Ornithologists' Club 105 (2)(1985): 68-69.
- _____. "The Fossil Record of Birds." Avian Biology 8 (1985): 79-238. Edited by Donald S. Farner, James R. King, and Kenneth C. Parkes. New York and London: Academic Press.
- _____. "Pleistocene Birds of Puerto Rico." National Geographic Society Research Reports 18 (1985): 563-566.
- _____. "Fossil Seabirds and Marine Environments [Reply to M. R. Cooper and M. P. Stuart Irwin]." South African Journal of Science 81 (6)(1985): 290-291.
- _____. "Early Pliocene Procellariiformes (Aves) from Langebaanweg, South-western Cape Province, South Africa." Annals of the South African Museum 95 (3)(1985): 123-145.

- _____. "An Early Pliocene Marine Avifauna from Duinefontein, Cape Province, South Africa." Annals of the South African Museum 95 (4)(1985): 147-164.
- Olson, Storrs L., and Ames, Peter L. "Promerops as a Thrush and Its Implications for the Evolution of Nectarivory in Birds." Ostrich 56 (4)(1984): 213-218.
- Potter, C. W. "Marine Mammals of Maryland." In Threatened and Endangered Plants and Animals of Maryland, Special Publication 84-1 (1984): 442-453. Edited by A. W. Norden, D. C. Forester, and G. H. Fenwick. Maryland Natural Heritage Program.
- Ripley, S. Dillon. "Conservation." The Phenomenon of Change (1984): 68.
- _____. "Know thy Neighbor as Thyself." Interdisciplinary Science Reviews 9 (3)(1984): 196-199.
- _____. "The Sacred Grove: An Afterword." Museum Studies Journal 1 (5)(1984): 48-49.
- _____. "Hypsipetes madagascariensis sinensis (La Touche): A First Record for India." Journal of the Bombay Natural History Society 81 (1)(1984): 195-196.
- _____. Review of Dear Lord Rothschild, by Miriam Rothschild. American Scientist 72 (6)(1984): 617-618.
- Springer, Victor G. "Oman ypsilon, a New Genus and Species of Blennioid Fish from the Indian Ocean." Proceedings of the Biological Society of Washington 98 (1)(1985): 90-97.
- Steadman, David W., and Olson, Storrs L. "Bird Remains from an Archaeological Site on Henderson Island, South Pacific: Man-caused Extinctions on an 'Uninhabited' Island." Proceedings of the National Academy of Sciences 82 (1985): 6191-6195.
- Thorington, R. W., Jr. "Flying Squirrels Are Monophyletic." Science 225 (1984): 1048-1050.
- _____. "The Taxonomy and Distribution of Squirrel Monkeys (Saimiri)." In Handbook of Squirrel Monkey Research (1985): 1-33. Edited by L. A. Rosenblum and C. L. Coe.
- Tighe, K. A., and Keene, M. J. "Zeiformes: Development and Relationships." In Ontogeny and Systematics of Fishes, Special Publication no. 1 (1984): 393-398. Edited by H. G. Moser, et al. American Society of Ichthyologists and Herpetologists.
- Vari, Richard P. "Two New Fish Species of the Genus Curimata (Pisces: Curimatidae) from Venezuela." Acta Biologica Venezuelica 11 (4)(1984): 27-43.
- _____. "Family Teraponidae." In FAO Species Identification Sheets for Fisheries Purposes, Western Indian Ocean (1984): 13 pages.
- _____. "Family Ambassidae." In FAO Species Identification Sheets for Fisheries Purposes, Western Indian Ocean (1984): 2 pages.
- _____. "Systematics of the Neotropical Characiform Genus Potamorhina (Pisces: Characiformes)." Smithsonian Contributions to Zoology 400 (1985): 1-36.
- _____. "A New Species of Bivibranchia (Pisces: Characiformes) from Surinam, with Comments on the Genus." Proceedings of the Biological Society of Washington 98 (2)(1985): 511-522.

- Weitzman, M. J., and Weitzman, S. H. "A Brazilian Biologist - A Permanência de Rodolpho von Ihering, Livro Jubilar pela Passagem do Primeiro Centenario do Seu Nascimento (1883-1983). Melquiades Pinto Paiva. Ed. Fundacao Brasileira para a Conservacao de Rio de Janeiro, Brasil. 1984. 212 pp. ill. Paper \$8." Science 288 (1985): 172-173.
- Weitzman, S. H. "Biogeography of the Glandulocaudine Characid Freshwater Fishes of South America." In National Geographic Society Research Reports, 1977. National Geographic Society 18 (1985): 775-778.
- Wetmore, Alexander; Pasquier, Roger F.; and Olson, Storrs L. "Birds of the Republic of Panama. Part 4: Order Passeriformes, Suborder Passeres, Hirundinidae (Swallows) to Fringillidae (Finches)." Smithsonian Miscellaneous Collections 150 (4)(1984): vi, 670.
- Williams, Jeffrey T. "Cirripectes imitator, a New Species of Western Pacific Blennioid Fish." Proceedings of the Biological Society of Washington 98 (2)(1985): 533-538.
- Zug, George R. "Pacific Island Lizards -- Status of Type Specimens from the US Exploring Expedition." Copeia 1 (1985): 150-154.
- _____. "A New Skink (Reptilia: Sauria: Leiopisma) from Fiji." Proceedings of the Biological Society of Washington 98 (1)(1985): 221-231.
- _____. Review of "The Rattlesnake." Science Books and Films 20 (4)(1985): 219.
- _____. Review of "The Alligator." Science Books and Films 20 (5)(1985): 309.
- _____. "Anuran Locomotion: Fatigue and Jumping Performance." Herpetologica 41 (2)(1985): 188-194.
- _____. Review of "The Book of Indian Reptiles." Herpetologica 41 (2)(1985): 236-237.
- Zug, George R., and Balazs, George H. "Skeletochronological Age Estimates for Hawaiian Green Turtles." Marine Turtle Newsletter 33 (1985): 9-10.

Smithsonian Oceanographic Sorting Center

- Boxshall, G.; Ferrari, F.; and Tiemann, H. eds. "The Ancestral Copepod: Towards a Concensus Opinion at the First International Conference on Copepoda." Crustaceana Supplement 7 (1984): 68-84.
- Ferrari, F. "A Copepodologist's Thoughts About Punctuated Equilibria." Crustaceana 47 (1984): 220-224.
- _____. "Pleiotropy and Pleuromamma, the Looking-glass Copepods." Crustaceana Supplement 7 (1984): 166-181.
- Hendler, G. "Brittlestar Color-change and Phototaxis (Echinodermata: Ophiuroidea: Ophiocomidae)." P.S.Z.N.I.: Marine Ecology 5 (4)(1984): 379-401.
- Landrum, B. J. "Biological Services and Collections." U.S. Antarctic Journal of the U.S. 18 (5)(1984): 294-295.

- Menez, E. G. "History of Philippine Phycology." In Proceedings of the First Philippines-US Phycology Workshop, October 24-November 5, 1984. Manila, Philippines.
- Menez, E. G., and Calumpong, H. P. "Halophila decipiens: An Unreported Seagrass in the Philippines." Proceedings of the Biological Society of Washington 98 (1)(1985): 232-236.

Smithsonian Marine Station at Link Port

- Byrne, Maria. "The Mechanical Properties of the Autotomy Tissues of the Holothurian Eupentacta quinquesemita (Selenka) and the Effects of Certain Physico-chemical Agents." Journal of Experimental Biology 117 (1985).
- Harasewych, M. G. "Comparative Anatomy of Four Primitive Muricacean Gastropods: Implications for Trophonine Phylogeny." American Malacological Bulletin 3 (1)(1984): 11-26.
- Jensen, Paul R.; Gibson, Robert A.; Littler, Mark M.; and Littler, Diane S. "Photosynthesis and Calcification in Four Deep-Water Halimeda Species (Chlorophyceae, Caulerpales)." Journal of Deep-Sea Research 32 (4)(1985): 451-464.
- Kristensen, Reinhardt Mobjerg, and Higgins, Robert P. "A New Family of Arthrotardigrada (Tardigrada: Heterotardigrada) from the Atlantic Coast of Florida U.S.A." Transactions of the American Microscopical Society 103 (3)(1984): 295-311.
- Littler, Mark M.; Littler, Diane; Blair, Stephen; and Norris, James N. "The Deepest Known Plant Life on Earth Is Discovered on an Uncharted Seamount." Science 227 (1985): 57-59.
- Manning, Raymond B., and Holthuis, L. B. "Geryon fenneri, a New Deep-water Crab from Florida (Crustacea: Decapoda: Geryonidae)." Proceedings of the Biological Society of Washington 97 (3)(1984): 666-673.
- Rice, Mary E. "Description of a Wood-dwelling Sipunculan Phascolosoma turnerae, New Species." Proceedings of the Biological Society of Washington 98 (1)(1985): 54-60.
- Rice, Mary E., and Reichardt, Hugh F. "Larval Development and Metamorphosis of Siphonosoma cumanense (Keferstein, 1867)(Sipuncula)." American Zoologist 24 (3)(1984): 242.
- Schiff, H., and Manning, R. B. "Description of a Unique Crustacean Eye." Journal of Crustacean Biology 4 (4)(1984): 604-614.

Publications of the National Zoological Park

Animal Departments

- Beck, B. 1984. The great escape. On The Edge, 25:11,17.
- Beck, B. 1985. Double jeopardy: The gorilla dilemma. Zoogoer, 14:9-15.
- Bingaman, L. 1985. How fast can an alligator run? Zoogoer, 14:15-17.
- Eisenberg, J. E. and E. Gould. 1984. The insectivores. A. Jolly, P. Oberlé and R. Albignac (eds). Key Environments. Madagascar. (New York, Pergamon). Pp. 155-165.
- Stevens, L. 1985. Genetic management through deception. Lion-Tales, 2:1.

Department of Animal Health

- Alvarado, T.P. 1985. What is your diagnosis? J. Amer. Vet. Med. Assoc.
In press.
- Alvarado, T.P. and R.J. Montali. 1985. What is your diagnosis? J. Amer. Vet. Med. Assoc. In press.
- Bush, M., R.J. Montali, L.G. Phillips, T.P. Alvarado and W.J. Ravich.
(1985) Acute hemorrhagic enteritis in a male giant panda.
(Submitted)
- Bush, M., R.J. Montali, L.G. Phillips, S.B. Citino, G. Boch, and E.J. Ruley. (1985) Anemia and renal failure in a giant panda (Ailuropoda melanoleuca). (Submitted).
- Goodrowe, K.L. and D.E. Wildt. 1985. Ovarian response to gonadotropins in natural and induced-estrus cats. Fed. Proc. p. 2536.
- Goodrowe, K.L., P.K. Chakraborty and D.E. Wildt. 1985. Pituitary and gonadal response to exogenous LH-releasing hormone in the male domestic cat. J. Endocrinol. 105:175-181.

- Hall, L.L., M. Bush, J.G. Howard and D.E. Wildt. 1985. Migration of sperm from various species through a synthetic cervical mucus. Fed. Proc. p. 2537.
- Hall, L.L., M. Bush, J.G. Howard and D.E. Wildt. 1985. Intra-and inter-species comparison of sperm migration through polyacrylamide gel as an index of spermatozoal viability. Zoo Biol. (in press).
- Hall, L.L., M. Bush, R.J. Montali, P.K. Chakroborty and D.E. Wildt. 1985. Loss of genetic variation affects testes/endocrine function in the male dog. Proceedings: 3rd Internat. Cong. Androl.
- Knight, J. A., M. Bush, M. Celma, A. L. Garcia del Campo, R. Goltenboth, J. P. Hearn, J. K. Hodges, D. M. Jones, H. G. Klos, L. Monsalve, R. Montali, H. D. M. Moore. 1985. Veterinary aspects of reproduction in the giant panda (Ailuropoda melanoleuca). Bongo (sumbitted).
- O'Brien, S.J., M.E. Roelke, L. Marker, A. Newman, C.W. Winkler, D. Meltzer, L. Colly, J. Everman, M. Bush and D.E. Wildt. 1985. Genetic basis for species vulnerability in the cheetah. Science 227:1428-1434.
- O'Brien, S.J., W.G. Nash, D.E. Wildt, M. Bush and R.E. Benveniste. 1985. Riddle of the giant panda's phlogeny: A molecular solution. Nature 317:140-145.
- Schiewe, M.C., J.G. Howard, L.S. Stuart, K.L. Goodrowe and D.E. Wildt. 1985. Human menopausal gonadotropin (hMG) for superovulation of sheep. Proceedings: Inter. Embryo Trans. Soc., Theriogenology 23:227.
- Schiewe, M.C., M. Bush and D.E. Wildt. 1985. Multiple ovulation induction in sheep with human menopausal gonadotropin. Fed. Proc. p. 2537.
- Schiewe, M.C., P.M. Schmidt, M. Bush and D.E. Wildt. 1985. Toxicity potential of absorbed/retained ethylene oxide residues in culture dishes on embryo development in vitro. J. Animal Sci.
- Schmidt, P.M., C.T. Hansen and D.E. Wildt. 1985. Viability of frozen-thawed mouse embryos is affected by genotype. Biol. Reprod. 32:507-514.
- Schmidt, P.M., M.C. Schiewe and D.E. Wildt. 1985. Variables influencing post-thaw empyro survival rates in mice. Proceedings: Inter. Embroy Trans. Soc., Theriogonology 23:229.
- Schmidt, P.M., M.C. Schiewe and D.E. Wildt. 1985. Comparative aspects of mouse embryo survival following thawing. Proceedings: Soc. Develop. Biol. p. 17.
- Wildt, D.E. 1985. Reproductive techniques of potential use in the artificial propagation of non-human primates. In: The Lion-Tailed Macaque: Status and Conservation, P.G. Heltue, ed. Alan R. Liss, Inc., New York, pp. 161-194.

Wildt, D.E. and D.F. Lawler. 1985. Laparoscopic sterilization of the bitch and queen by uterine horn occlusion. Amer. J. Vet. Res. 46:864-869.

Department of Conservation

Berger, J. and R. Rudman. 1985. Predation and interactions between coyotes and feral horse foals. J. Mammal. 66(2):401-402.

Blohowiak, C. C. and P. B. Siegel. 1985. Mate preferences by males from lines of Japanese quail (Coturnix coturnix japonica) selected for mating frequency. 1. Preference among lines. Biology of Behavior, 10:87-95.

Blohowiak, C. C. and P. B. Siegel. 1985. Mate preferences by males from lines of Japanese quail (Coturnix coturnix japonica) selected for mating frequency. 2. Preference among plumage colors. Biology of Behavior 10:97-103.

Blohowiak, C. C., T. L. DeSanto, Y. R. Lin, and C. Y. Lin. 1985. Diurnal, pre mating, and post mating testosterone levels in roosters genetically selected for mating frequency. Poultry Science, 64:1028-1030.

Blohowiak, C. C., D. J. Zelanka, and P. B. Siegel. 1985. Ontogeny of aggressive-secual behavior between males in lines of Japanese quail (Coturnix cotrunix japonica) selected for male mating frequency. Journal of Comparative Psychology, 99:30-34.

Pfeifer, S. 1985. Flehmen and dominance among captive adult female scimitar-horned oryx (Oryx damah). J. Mammal. 66(1):160-163.

Stuwe, M., and H. Hendrichs. 1984. Organization of roe deer (Capreolus capreolus) in an open field habitat. Zeit. fur Saugetierkunde 49(6):359-667.

Wemmer, C. 1985. Black-footed ferret management and research: views of a zoo biologist. In: Black-footed Ferret Workshop Proceedings, Pp. 31.1-31.10, (S. H. Anderson and D. B. Ankley, eds), Wyoming Fish and Game Department, Laramie, Wyoming.

Department of Pathology

- Bush, M., Montali, R. J., Phillips, L. G., Citano, S. B., Bock, G. and Ruley, E. J. 1984. Anemia and renal failure in a Giant Panda. JAVMA, 185(11):1435-1437.
- Bush, M., Montali, R. J., Reid, F. 1985. Clinical trials with killed rabies vaccine in zoo mammals Symposium on Immunology of Zoo Animals, Riverbanks Zoological Park, S.C. (Abstract).
- Dein, F. J. 1984. Laboratory Manual of Avian Hematology. Association of Avian Veterinarians.
- Dein, F. J., Wilson, A., and Montali, R. J. 1984. Experimental infection and diagnosis of avian tuberculosis Proceedings of AAZV, Louisville (Abstract).
- Montali, R. J., Allen, G. P., Bryans, J. T., and Bush, M. 1984. Equine Herpesvirus Type-1 (EHV-1) in exotic equidae. Abstracts/proceedings, American Association of Zoo Veterinarians, Louisville, pp. 100-109.
- Montali, R. J., Bartz, C., Bush, M., and Grate, S. 1984/1985. Viral diseases of nondomesticated carnivores. In: Viral Infections of Vertebrates, editor-in-chief, Horzinek, N. Elsevier Scientific Publishing Company, Amsterdam.
- Montali, R. J., R.A. Freeman, L. Collins, C. Wemmer, and M. Bush. 1985. Pathology survey of captive cervids at the National Zoological Park. Proceedings: 27th International Symposium for the Diseases of Zoo Animals, Turin, pp. 17-28.
- Montali, R. J., Phillips, L., and Appel, M. J. G. 1985. Canine distemper in exotic carnivores: Update on vaccination procedures Symposium on Immunology of Zoo and Wild Animals. Riverbanks Zoological Park, S. C. (Abstract).
- Montali, R. J., Reid, F., Sanders, G., Freeman, R., and Bush, M. 1984. Monitoring a raccoon rabies epizootic from Northern Virginia to Washington, D.C. In: Proc of the North American Symposium on Rabies in Wildlife. The John Hopkins University School of Hygiene and Public Health and Centers for Disease Control, In Press.
- Nichols, D., and Montali, R. J. 1985. Atherosclerosis in zoo birds. Laboratory Investigations, 152:48A-49A (Abstract).
- Shaw, M., Montali, R. J., and Bush, M. 1984. Streptococcus zooepidemicus in small carnivorous mammals fed uncooked horse meat. Journal of Zoo Animal medicine, 15:(4)161-164.
- Wells, M. Y. and Montali, R. J. 1985. Pasteurellosis in Southern Potoroos (Potorous apicalis). Journal of Zoo Animal Medicine, 16:21-25.

Department of Zoological Research

- Ballou, J. D. "Strategies for maintaining genetic diversity in captive populations through reproductive technology." *Zoo Biology*. 1984 3:311-323.
- Bekoff, M., T. J. Daniels and J. Gittleman. [Review] Life history patterns and the comparative social ecology of carnivores. *Annual Review of Ecology and Systematics*. 15(1984):191-232.
- Blohowiak, C. and H. P. Van Krey. "Time of mating behavior by males from lines of chickens selected for high and low mating frequency." *Poultry Sci.* 1984 63:1677-1678.
- Blohowiak, C. and P. B. Siegel. "Plumage phenotypes and mate preferences in Japanese quail. 2. Sexual imprinting." *Behav. Proc.* 1984 8:255-275.
- Boness, D. J. "Activity budget of male grey seals, Halichoerus grypus." *Mammal*. 1984 65:291-297.
- Boness, D. J., O. T. Oftedal and K. A. Ono. "Maternal investment and pup development in the California sea lion on San Nicolas: Some preliminary results." *Proc. Biennial Mugu Lagoon/San Nicolas Island. Ecol. Res. Symp.*: 3:151-169.
- Crockett, C. M. "Emigration by female red howler monkeys and the case for female competition." In *Female Primates: Studies by Women Primatologists*, ed. Meredith Small, pp. 159-173. Alan Liss Inc., New York, 1984.
- Crockett, C. M. "Population studies of red howler monkeys (Alouatta seniculus)." *National Geographic Research*. 1985. 1(2):264-273.
- Crockett, C. M. and R. Sekulic. "Infanticide in red howler monkeys (Alouatta seniculus)." In *Infanticide: Comparative and Evolutionary Perspectives*, eds. G. Hausfater, S. Blaffer Hrdy, pp. 173-191. Aldine Press, New York, 1984.
- Cunningham, B. "Habitat preference in house crickets, Acheta domesticus." *Animal Keepers' Forum*. 1984 11:342-344.
- Davidar, P. "Feeding territories of the small sunbird (Nectarinia minima)." *J. Bombay Nat. Hist. Soc.* 1984.
- Davidar, P. "Ecological interactions between south Indian mistletoes and their avian pollinators." *J. Bombay Nat. Hist. Soc.* 1984.
- Dietz, James M. "Chrysocyon brachyurus. Mammalian Species No. 234." *The American Society of Mammalogists*. 1985 pp. 1-14.

- Dittus, Wolfgang P. J. A study of social evolution: The influence of environment, behavior, and kinship on the demography of a opulation of toque monkeys. National Geo. Soc. Research Report, (1984) pp. 171-182.
- Dittus, Wolfgang P. J. "Toque macaque food calls: Semantic communicaton concerning food distribution in the environment." Anim. Behav. 1984 32:470-477.
- Dittus, Wolfgang P. J. "The influence of cyclones on the dry evergreen forest of Sri Lanka." Biotropica. 1985 17(1):1-14.
- Dittus, Wolfgang P. J. "The influence of leaf-monkeys on their feeding trees in a cyclone-disturbed environment." Biotropica. 1985 17(2):100-106.
- Frazier, J. "Records of cetaceans from Kenya." African Journal of Ecology. 1984 21(2):115-118.
- Frazier, J. "The Marine turtles situation in the East Pacific." CDC Newsletter. 1984 2(1):7-9.
- Frazier, J. "Analisis estadistico de las tortugas golfinas Lepidochelys olivacea (Eschscholtz) de Oaxaca, Mexico." Ciencia Pesquera. 1984 4:49-75.
- Frazier, J. "Marine turtles in the Seychelles and adjacent territories." In Biogeography and Ecology of the Seychelles Islands, ed. D. R. Stoddart, pp. 417-468. Junk, The Hague, 1984.
- Frazier, J. Contemporary problems in sea turtle biology and conservation - The urgent need for regional cooperation. Bulletin of the Central Marine Fisheries Research Institute, Special Publication, Cochin, 18 (1984):77-91.
- Frazier, J. "Tetracycline as an in vivo label in bones of green turtles, Chelonia mydas (L.)." Herpetologica. 1985 41(2):228-234.
- Frazier, J. "A review of in vivo labels of studies of age determination and growth in amphibians and reptiles." Herpetologica. 1985 41(2):222-227.
- Frazier, J. and J. F. Eisenberg. "A leatherback turtle feeding in the wild." Journal of Herpetologica. 1984 17(1):81-82.
- Frazier, J. and K. Kranz. "Predation on tortoises by antelopes: Angolan legends regarding Kinixys belliana." Bulletin of the British Herpetological Society. 1984 8:58-59.
- Frazier, J. and S. Salas. "Tortugas marinas en Chile." Boletin del Museo Nacional de Historia Natural de Chile. 1984. 39:63-73.
- Frazier, J. and S. Salas. "Tortugas Marinas en la Costa Peruana." Boletin de Lima. 1984. 5(30):13.

- Frazier, J. and S. Salas. "The status of marine turtles in the Egyptian Red Sea." *Biological Conservation*. 1984. 30:41-67.
- Frazier, J., K. Kranz, E. Glumak and J. Toah. [Review] Geographic distribution: Pelusia niger. *SSAR Herp. Review*, 15(3):77.
- Gittleman, J. L. "Functions of communal care in mammals." In *Evolution: Essays in Honor of John Maynard Smith*, eds. P. Greenwood, P. Harvey and M. Slatkin, pp. 187-205. Cambridge Univ. Press, 1984.
- Gradwohl, J. A. and R. Greenberg. "Search behavior of the checker-throated antwren foraging in aerial leaf litter." *Behav. Ecol. Sociobiol.* 1984 15:281-285.
- Grand, T. I. "Motion economy within the canopy: four strategies for mobility." In *Adaptations for Foraging in Non-Human Primates*, eds. J. G. H. Cant and P. S. Rodman, pp. 54-72. Columbia Univ. Press.
- Greenberg, R. "The winter exploitation systems of bay-breasted and chestnut-sided warblers in Panama." *Univ. Calif. Publ. Zool.* 1984 116:1-107.
- Greenberg, R. "Neophobia in the foraging site selection of a neotropical migrant bird: an experimental study." *Proc. Nat. Acad. Sci. (USA)*. 1984 81:3778-3780.
- Greenberg, R. "Differences in feeding neophobia between two species of tropical migrant warblers (Dendroica pennsylvanica and D. castanea)." *J. Comp. Psych.* 1984 98:131-136.
- Harvey, P. H. and K. Ralls. "Homage to the null weasel." In *Evolution*, eds. P. J. Greenwood, M. Slatkin and P. Harvey, pp. 155-171. Cambridge Univ. Press, 1985.
- Hodges, J. K., D. J. Bevan, M. Celma, J. P. Hearn, D. M. Jones, D. G. Kleiman, J. A. Knight and H. D. Moore. "Aspects of the reproductive endocrinology of the female giant panda (Ailuropoda melanoleuca) in captivity with special reference to the detection of ovulation and pregnancy." *J. Zool., London*. 1984 Vol. 203:253-267.
- Kleiman, D. G. "Review of J. H. Wolfheim, *Primates of the World: Distribution, Abundance and Conservation*." *American Scientist*, Univ. of Washington Press, Seattle. 1983 72:402.
- Kleiman, D. G. "Implications of monogamy for infant social development in mammals." In *Beyond the Dyad*, ed. M. Lewis, pp. 91-108. Plenum Press, New York, 1984.
- Kleiman, D. G. "Conservation Strategies." *Zoogoer*. 1984 13(3):8.
- Kleiman, D. G. "The National Zoo's role in an international primate conservation program." *IUCN/SSC Primate Specialist Group Newsletter*. 1984 4:45-46.

- Kleiman, D. G. [Review] Review of D. M. Taub (ed.), *Primate Paternalism*. Van Nostrand Reinhold, New York, 441 pp. *Science*, 227 (No. 4684) (1985):288.
- Kleiman, D. G. "Criteria for the evaluation of zoo research projects." *Zoo Biology*. 1985 4:93-98.
- Kleiman, D. G. and J. Seidensticker. [Review] Review of G. S. Schaller, et. al., *Giant Pandas of Wolong*. Univ. of Chicago Press, 298 pp. *Science*, 228 (1985):4701.
- Kleiman, D. G., B. Beck and R. Hoage. "Golden lion tamarins successfully released." *AAZPA Newsletter*. 1985 26:April.
- Kohn, F., M. Roberts, A. Keppel, E. Maliniak and M. Deal. "Management and husbandry of the western tarsier, Tarsius bancanus, at the National Zoological Park." *Animal Keepers Forum*. 1984 11:468-478.
- Koontz, F. W. "Sternal gland scent communication in the Rufous elephant-shrew, Elephantus rufescens, with additional observations on behavior and reproduction in captivity." [PhD. Thesis], Univ. of Maryland, College Park. 1984.
- Kranz, K. R. "Pair bonding and scent marking behavior in captive dik-dik, Madoqua kirki (Artiodactyla: Bovidae)." [M.S. Thesis], Geo. Mason Univ., 1984.
- Lumpkin, S. [Review] Review of 'Animal Behaviour, Ecology and Evolution' by C. J. Barnard. *Quart. Rev. Biol.*, 59 (1984):99-100.
- Lumpkin, S. and K. R. Kranz. "Cephalophus sylvicultor." *Mammalian Species*. American Society of Mammalogists. 1984 225:1-17.
- Macdonald, D. W., K. Kranz and K. T. Aplin. "Behavioral, anatomical and chemical aspects of olfactory communication amongst capybaras (Hydrochoerus hydrochaeris), (Rodentia, Hystricomorpha). *J. Zool.* 1984 202:341-360.
- McDade, L. and P. Davidar. "Determinants of fruit and seed set in Pavonia lasypetala." *Oecologia*. 1984.
- Montali, R., M. Roberts, R. Freeman and M. Bush. "Pathology of red pandas, Ailurus fulgens." In *One Medicine*, eds. O. Ryder, and M. Byrd, pp. 128-140. Springer-Verlag, 1984.
- O'Brien, S., D. Goldman, J. Knight, H. Moore, D. Wildt, M. Bush, R. Montali and D. G. Kleiman. "Giant panda paternity." *Science*. 1984 223:1127-1128.
- Oftedal, O. T. "Body size and reproductive strategy as correlates of milk energy yield in lactating mammals." *Acta Zoologica Fennica*. 1984 171:183-186.

- Oftedal, O. T. "Lactation in the dog: Milk composition and intake by puppies." J. of Nutrition. 1984 113:2096-2106.
- Oftedal, O. T. "Milk composition, milk yield and energy output at peak lactation. A comparative review." In Physiological Strategies of Lactation, eds. M. Peaker, R. G. Bernon and C. H. Knight, pp. 33-85. Academic Press, New York, 1984.
- Oftedal, O. T. and D. J. Boness. "Fish quality: The net result." Proc. Amer. Assoc. Zoo. Vet. 1984 47-51.
- Oftedal, O. and D. J. Boness. "Considerations in the use of fish as food." In Proceedings of the 3rd Annual Dr. School Conf. on Nutrition of Captive Wild Animals. Lincoln Park Zoological Gardens, Chicago, IL, 1984.
- Ralls, K. "Genetic management of zoo animals." Biologist. 1984 31:99-102.
- Ralls, K. [Review] The Biology and Management of an Extinct Species: Pere David's Deer by B. J. Beck and C. Wemmer. Quart. Review Biol., 59 (1984):78-79.
- Ralls, K. and K. Kranz. "Duikers." In Encyclopedia of Mammals, ed. D. Macdonald, pp. 556-559. Facts on File Pubs., New York, 1984.
- Ralls, K. and Paul H. Harvey. "Geographic variation in size and sexual dimorphism of North American weasels." Biological Journal of the Linnean Society. 1985 25:119-167.
- Ralls, K., H. K. Buechner, R. Kiltie and K. Kranz. "Behavior and reproduction of captive bongo, Tragelaphus eurycerus." Zoo. Garten N.F., 1985 55:41-67.
- Ralls, K., K. Kranz and B. Lundrigan. "Letter to the Editor: Mother-young behaviour in ungulates." Applied Animal Behaviour Science, 1985 14:201-203.
- Ralls, K., P. Fiorelli and S. Gish. "Vocalizations and vocal mimicry in captive harbor seals, Phoca vitulina." Can. J. Zool. 1985 63(5): 1050-1056.
- Roberts, M. and J. Gittleman. "Ailurus fulgens." Mammalian Species No. 222. Amer. Soc. of Mammalogists. 1984 222:1-8.
- Roberts, M., E. Maliniak and M. Deal. "The reproductive biology of the rock cavy, Kerodon rupestris, in captivity: A study of reproductive adaptation in a trophic specialist." Mammalia. 1984 48:253-266.
- Roberts, M., F. Kohn, A. Keppel, E. Maliniak and M. Deal. "Management and husbandry of the western tarsier, Tarsius bancanus, at the National Zoological Park." Proc. AAZPA Regional Meetings. 1984 1984:588-599.

- Ross, W. D., T. I. Grand, G. R. Marshall and A. D. Martin. "On human and animal geometry. VII Common. & Int'l Conf. of Sport, Phys. Ed., Recreation & Dance. The Kinesiological Sciences." Eds., M. Howell and B. Wilson; 7.
- Shy, E. "Sympatry and allopatry of song in North American tanagers." *Behav. Ecol. Sociobiol.* 1984 15:189-195.
- Shy, E. "The structure of song and its geographic variation in North American tanagers (Thraupinae: Piranga)." *Oecologia*. 1984 63:281-285.
- Shy, E. "The structure of song and its geographical variation in the scarlet tanager (Piranga olivacea)." *Am. Midl. Nat.* 1984 112:119-130.
- Sieber, O. J. "Vocal communication in raccoons, (Procyon lotor)."
Behaviour. 1984 90:80-113.
- Sieber, O. J. "Individual recognition of parental calls by bank swallow chicks (Riparia riparia)."
Animal Behaviour. 1985 33:107-116.
- Thompson, S. D. "Subspecific differences in metabolism, thermoregulation, and torpor in the western harvest mouse Reithrodontomys megalotis." *Physiol. Zool.* 1985 58(4):430-444.
- Thompson, S. D. "Bipedal hopping and seed-dispersion selection by heteromyid rodents: the role of locomotion energetics." *Ecology*. 1985 66:220-229.
- Zullinger, E. M., R. E. Ricklefs, K. H. Redford and G. M. Mace. "Fitting sigmoidal equations to mammalian growth curves." *J. Mammal.* 1984 75:607-636.

SMITHSONIAN ASTROPHYSICAL OBSERVATORY

- Abreu, V. J.; Dalgarno, A.; Yee, J. H.; Chakrabarti, S.; and Solomon, S. E. "The OI 989-Å Tropical Nightglow." *Geophysical Research Letters* 11(1984):569.
- Abreu, V. J.; Skinner, W. R.; Hayes, P. B.; and Yee, J.-H. "Optical Effects of Spacecraft-Environment Interactions: Spectrometric Observations by the DE-B Satellite." *Spacecraft and Rockets* 22(1985):177.
- Armstrong, J. T.; Ho, P. T. P.; and Barrett, A. H. "VLA Observations of Smooth, Rapidly Rotating NH₃ in the SgrA '15 km s⁻¹ Cloud.'" *Astrophysical Journal* 288(1985):159.
- Asaro, C. and Dalgarno, A. "Bound Vibrational Levels of the Two Lowest ¹Σ⁺ States of LiF." *Chemical Physics Letters* 118(1985): 64^c.
- Avrett, E. H. "Recent Thermal Models of the Chromosphere." In *Chromospheric Diagnostics and Modeling*, ed. B. W. Lites, p. 67. Sunspot, New Mexico: National Solar Observatory, 1985.
- Bailyn, C.; Rosner, R.; and Tsinganos, K. "On the Solution Topologies of Polytropic Winds." *Astrophysical Journal* 296(1985):696.
- Baliunas, S. L. "Outer Atmospheres of Cool Stars Observed with IUE." In *Future of Ultraviolet Astronomy Based on Six Years of IUE Research*, eds. J. M. Mead, R. D. Chapman and Y. Kondo, p. 64. Baltimore, Maryland: NASA Conference Publication 2349, 1984.
- Baliunas, S. L., and Guinan, E. F. "The Old Galactic Cluster NGC 188 and the Origin of the W Ursae Majoris-Type Binaries." *Astrophysical Journal* 294(1985):294.
- Baliunas, S. L.; Horne, J. H.; Porter, A.; Duncan, D.; Frazer, J.; Lanning, H.; Misch, A.; Mueller, J.; Noyes, R.; Soyumer, D.; and Vaughan, A. A. "Time-Series Measurements of Chromospheric Ca II H and K Emission in Cool Stars and the Search for Differential Rotation." *Astrophysical Journal* 294(1985):310.
- Band, D. L., and Grindlay, J. E. "On the Origin of X-ray Variability of SS433." *Astrophysical Journal* 285(1984):702.
- Barnes, A.; Goldstein, M.; Hollweg, J.; Mariska, J.; Matthaeus, W.; Smith, C.; Smiths, E.; Stein, R.; Withbroe, G.; and Woo, R. "MHD Waves and Turbulence in the Sun and Interplanetary Medium." In *Solar Terrestrial Physics: Present and Future*, eds. D. M. Butler and K. Papadopoulos, p. 4-3. College Park, Maryland: NASA Reference Publication 1120, 1984.
- Bartel, N. "Angular Diameter Determinations of Radio Supernovae and the Distance Scale." In *Proceedings, Supernova as Distance Indicators, Lecture Notes in Physics, No. 224*, ed. N. Bartel, p. 107. Berlin: Springer-Verlag, 1985.
- Bartel, N.; Ratner, M. I.; Shapiro, I. I.; Cappallo, R. J.; Rogers, A. E. E.; and Whitney, A. R. "Pulsar Astrometry via VLBI." *Astronomical Journal* 90(1985):318.
- Berger, M., and Field, G. B. "The Topological Properties of Magnetic Helicity." *Journal of Fluid Mechanics* 147(1984):133.
- Biermann, P.; Schmidt, G. D.; Liebert, J.; Stockman, H. S.; Tapia, S.; Kuhr, H.; Strittmatter, P. A.; West, S.; and Lamb, D. Q. "The New Eclipsing Magnetic Binary System E1112+182." *Astrophysical Journal* 293(1985):303.
- Biermann, P.; Strom, R.; and Bartel, N. "NGC 6212: An Elliptical Galaxy with a Highly Active Nucleus." *Astrophysical Journal (Letters)* 147(1985):L27.
- Birkinshaw, M., and Davies, R. L. "The Orientations of the Rotation Axes of Elliptical Galaxies. I. Radio Morphologies of Bright Elliptical Galaxies." *Astrophysical Journal* 291(1985):32.
- Black, J. H., and Smith, P. L. "Interstellar O₂, I: Abundance, Excitation, and Prospects for Detection of ¹⁶O¹⁸O at Radio Frequencies." *Astrophysical Journal* 277(1984):562.
- Blair, W. P.; Fesen, R. A.; and Kirshner, R. P. "New Views of the Cygnus Loop." *Mercury* 13(1984):16.
- Blair, W. P., and Kirshner, R. P. "Improved Optical Spectrophotometry of Supernova Remnants in M33." *Astrophysical Journal* 289(1985):582.
- Blair, W. P.; Kirshner, R. P.; and Winkler, P. F. "A Powerful Young Supernova Remnant in Another Galaxy." *Mercury* 14(1985):80.
- Bodo, G.; Ferrari, A.; Massaglia, S.; Kalkofen, W.; and Rosner, R. "Equilibrium Model of Thin Magnetic Flux Tubes." *Proceedings of a Course and Workshop on Plasma Astrophysics (Varenna, Italy)*, p. 277. European Space Agency SP-207, 1984.

- Bodo, G.; Ferrari, A.; Massaglia, S.; Rosner, R.; and Vaiana, G. S. "MHD Thermal Instabilities in Cool Inhomogeneous Atmospheres." *Astrophysical Journal* 291(1985):798.
- Bonin, K. D.; McIlrath, T. J.; and Yoshino, K. "High-Resolution Laser and Classical Spectroscopy of Xenon Autoionization." *Journal of the Optical Society of America A* 2(1985):1275.
- Bothun, G.; Aaronson, M.; Schommer, R.; Mould, J.; Huchra, J.; and Sullivan III, W. "A Catalog of Radio, Optical and Infrared Observations of Spiral Galaxies in Clusters." *Astrophysical Journal Supplements* 57(1985):423.
- Brainerd, J. J., and Lamb, D. Q. "Orientations of AM Her Stars from Their Polarization Properties: The Case of the Missing AM Her Stars." In *Cataclysmic Variables and Low Mass X-Ray Binaries*, eds. D. Q. Lamb and J. Patterson, p. 247. Dordrecht, Holland: D. Reidel Publishing Company, 1984.
- Cameron, A. G. W. "Star Formation and Extinct Radioactivities." *Icarus* 60(1984):416.
- . "Formation of the Prelunar Accretion Disk." *Icarus* 62(1985):319.
- Cameron, A. G. W.; Cowan, J. J.; and Truran, J. W. "Neutron Source Requirements for the Helium R-Process." In *Proceedings of the Workshop on Challenges and New Developments in Nucleosynthesis*, eds. W. D. Arnett and J. W. Truran, p. 190. Chicago, Illinois: University of Chicago Press, 1985.
- Cantu, A. M.; Parkinson, W. H.; Grisendi, T.; and Tagliaferri, G. "Absorption Spectrum of Atomic Chlorine: $3p^5 \ ^2P_{3/2-1/2} - 3p^4 \ ns,nd$." *Physica Scripta* 31(1985):579.
- Carney, B. W., and Latham, D. W. "A New Halo Survey." In *I.A.U. Colloquium No. 88, Stellar Radial Velocities*, eds. A. G. D. Philip and D. W. Latham, p. 89. Schenectady, New York: L. Davis Press, 1985.
- Carney, B. W.; Latham, D. W.; and Straižys, V. "Kinematics of Halo Red Giants." In *I.A.U. Colloquium No. 88, Stellar Radial Velocities*, eds. A. G. D. Philip and D. W. Latham, p. 177. Schenectady, New York: L. Davis Press, 1985.
- Cawley, M. F., and Weekes, T. C. "Gamma Ray Absorption and the Distance to Cygnus X-3." *Astronomy and Astrophysics* 133(1984):80.
- Cawley, M. F.; Fegan, D. J.; Gibbs, K.; Gorham, P. W.; Hillas, A. M.; Lamb, R. C.; Liebing, D. F.; Mackeown, P. K.; Porter, N. A.; Stenger, V. J.; and Weekes, T. C. "Application of Imaging to Atmospheric Cherenkov Techniques." *Proceedings of the 19th International Cosmic Ray Conference (La Jolla, USA)* 3(1985):453.
- Cawley, M. F.; Fegan, D. J.; Gibbs, K. G.; Gorham, P. W.; Kenny, S.; Lamb, R. C.; Liebing, D. F.; Porter, N. A.; Stenger, V. J.; and Weekes, T. C. "Hercules X-1: Pulsed Gamma Rays Detected above 150 GeV." *Proceedings of the 19th International Cosmic Ray Conference (La Jolla, USA)* 1(1985):119.
- Cawley, M. F.; Fegan, D. J.; Gibbs, K.; Gorham, P. W.; Lamb, R. C.; Liebing, D. F.; Mackeown, P. K.; Porter, N. A.; Stenger, V. J.; and Weekes, T. C. "Observations of the Crab Nebula at Energies $> 4 \cdot 10^{11}$." *Proceedings of the 19th International Cosmic Ray Conference (La Jolla, USA)* 1(1985):131.
- Cawley, M. F.; Fegan, D. J.; Gibbs, K.; Gorham, P. W.; Lamb, R. C.; Liebing, D. F.; Mackeown, P. K.; Porter, N. A.; Stenger, V. J.; and Weekes, T. C. "Search for Gamma Rays above 400 GeV from Geminga." *Proceedings of the 19th International Cosmic Ray Conference (La Jolla, USA)* 1(1985):173.
- Cawley, M. F.; Fegan, D. J.; Gibbs, K.; Gorham, P. W.; Lamb, R. C.; Liebing, D. F.; Porter, N. A.; Stenger, V. J.; and Weekes, T. C. "Search for Gamma Rays from M31 and Other Extragalactic Objects." *Proceedings of the 19th International Cosmic Ray Conference (La Jolla, USA)* 1(1985):264.
- Cawley, M. F.; Fegan, D. J.; Gibbs, K.; Gorham, P. W.; Lamb, R. C.; Liebing, D. F.; Porter, N. A.; Stenger, V. J.; Weekes, T. C.; and Williams, R. J. "Variability in the High Energy Gamma-Ray Emission from Cygnus X-3 over a Two-Year Period (1983-1984) at $E > 4 \times 10^{11}$ eV." *Proceedings of the 19th International Cosmic Ray Conference (La Jolla, USA)* 1(1985):87.
- Chaffee, F. H., Jr.; Foltz, C. B.; Roser, H.-J.; Weymann, R. J.; and Latham, D. W. "High-Resolution Spectroscopy of Selected Absorption Lines Toward Quasi-Stellar Objects. II. The Metal-to-Hydrogen Ratio in a 'Metal-Free' Cloud Toward S5 0015+81." *Astrophysical Journal* 292(1985):362.
- Chance, K. V., and Traub, W. A. "An Upper Limit for Stratospheric Hydrogen Peroxide." *Journal of Geophysical Research* 89(1984):11655.
- Cheung, A. S.-C.; Yoshino, K.; Parkinson, W. H.; and Freeman, D. E. "Herzberg Continuum Cross Section of Oxygen in the Wavelength Region 193.5-204.0 nm and Band Oscillator Strengths of the (0,0) and (1,0) Schumann-Runge Bands." *Canadian Journal of Physics* 62(1984):1752.

- Clark, T. A.; Corey, B. E.; Davis, J. L.; Elgered, G.; Herring, T. A.; Hinteregger, H. F.; Knight, C. A.; Levine, J. L.; Lunqvist, G.; Ma, C.; Nesman, E. F.; Phillips, R. B.; Rogers, A. E. E.; Ronnang, B. O.; Ryan, J. W.; Schupler, B. R.; Shaffer, D. B.; Shapiro, I. I.; Vandenberg, N. R.; Webber, J. C.; and Whitney, A. R. "Precision Geodesy Using the Mark III Very-Long-Baseline Interferometer System." *Institute of Electrical and Electronic Engineers Geoscience and Report Sensing Transactions* GE-23(1985):438.
- Cooper, D. L.; Kirby K.; and Dalgarno, A. "Radiative Charge Transfer and Radiative Association of Helium Ions with Neon Atoms." *Canadian Journal of Physics* 62(12)(1984):1622.
- Cooper, D. L.; Yee, J. H.; and Dalgarno, A. "Energy Transfer in en- Hydrogen Collisions." *Planetary and Space Science*, 32(1984):82.
- Cotton, W. D.; Geldzahler, B. J.; Marcaide, J. M.; Shapiro, I. I.; Sanroma, M.; and Ruis, A. "VLBI Observations of the Polarized Radio Emission from the Quasar 3C 454.3." *Astrophysical Journal* 286(1984):503.
- Cowan, J. J.; Cameron, A. G. W.; and Truran, J. W. "R-Process Nucleosynthesis in Dynamic Helium-Burning Environments." *Astrophysical Journal* 294(1985):656.
- Croswell, K., and Dalgarno A. "The Abundance of Interstellar OD." *Astrophysics Journal* 289(1985):618.
- da Costa, L. N.; Nunes, M. A.; and Geary, J. "The Observatorio Nacional Intensified Photon-Counting Reticon Detector." *Publicacoes do Observatorio Nacional No.5* (1985).
- Dainty, J. C.; Pipher, J. L.; Lacasse, M. G.; and Ridgway, S. T. "Spatially Resolved Infrared Observations of the Red Rectangle." *Astrophysical Journal* 293(1985):530.
- Dalgarno, A., and Lepp, S. "Deuterium Fractionation Mechanisms in Interstellar Clouds." *Astrophysical Journal Letters* 287(1984):L47.
- Dickel, H. R.; Ho, P. T. P.; and Wright, M. C. H. "The Molecular Core Associated with DR21." *Astrophysical Journal* 286(1984):503.
- Duncan, D. K.; Baliunas, S. L.; Noyes, R. W.; Vaughan, A. H.; Frazer, J.; and Lanning, H. "Chromospheric Emission and Rotation of the Hyades Lower Main Sequence." *Publications of the Astronomical Society of the Pacific* 96(1984):707.
- Dupree, A. K.; Avrett, E. H.; Hartmann, L.; and Smith, G. "Ultraviolet and Optical Observations of Metal Deficient Red Giants and Chromospheric Models." In *Fourth European IUE Conference*, p. 191. European Space Agency SP-218, 1984.
- Dupree, A. K.; Sonneborn, G.; Baliunas, S. L.; Giunon, E.F.; Hartmann, L.; and Hayes, D. "Betelgeuse at Maximum Luminosity." In *Future of Ultraviolet Astronomy Based on Six Years of IUE Research*, eds. J. M. Mead, R. D. Chapman, and Y. Kondo, p. 462. Baltimore, Maryland: NASA Conference Publication 2349, 1984.
- Elvis, M. "Einstein IPC Spectra of Quasars: First Results." In *Compact Galactic and Extragalactic X-ray Sources*, eds. Y. Tanaka and W. H. G. Lewin, p. 291. Tokyo, Japan: Institute for Space and Astronautical Science, 1985.
- Elvis, M., and Lawrence, A. "X-ray Spectra of Active Galaxies and Quasars." In *Astrophysics of Active Galaxies and Quasi-Stellar Objects*, ed. J. S. Miller, p. 289. University Science Books, 1985.
- Elvis, M.; Wilkes, B.; and Tananbaum, H. "The Diversity of Soft X-ray Spectra in Quasars." *Astrophysical Journal* 292(1985):357.
- Fabbiano, G., and Trinchieri, G. "A Statistical Analysis of the Einstein Normal Galaxy Sample: I. Spiral and Irregular Galaxies." *Astrophysical Journal* 296(1985):430.
- Fabricant, D.; Rybicki, G. B.; and Gorenstein, P. "X-Ray Measurements of the Nonspherical Mass Distribution in the Cluster of Galaxies A2256." *Astrophysical Journal* 286(1984):186.
- Falco, E. E.; Gorenstein, M. V.; and Shapiro, I. I. "On Model-Dependent Bounds on H_0 from Gravitational Images: Applications to Q0957+561A,B." *Astrophysical Journal (Letters)* 289(1985):L1.
- Farmer, C. B.; Carli, B.; Bonetti, A.; Carlotti, M.; Dinelli, B. M.; Fast, H.; Louisnard, N.; Alamichel, C.; Mankin, W.; Coffey, M.; Nolt, I. G.; Murcray, D. G.; Goldman, A.; Stokes, G.; Johnson, D.; Traub, W.; Chance, K.; Zander, R.; Delbouille, L.; and Roland, G. "Balloon Intercomparison Campaign: Results of Remote Sensing Measurements of HCl." In *Proceedings of Quadrennial Ozone Symposium* eds. C. S. Zerefos and A. Ghazi. Hingham, Massachusetts: D. Reidel Publishing Company, 1984.

- Faucherre, M.; Lacasse, M. G.; Nisenson, P.; Reasenberg, R. D.; Shao, M.; Stachnik, R. V.; and Traub, W. A. "A 50-Meter Michelson Stellar Interferometer on a Space Platform." In *Proceedings of the Workshop on High Angular Resolution Optical Interferometry from Space*, eds. P. B. Boyce and R. D. Reasenberg, *Bulletin of the American Astronomical Society* 16(1984):793.
- Faucherre, M.; Stachnik, R.; and Aram, S. "Numerical Experiments in Imaging Reconstruction." In *Proceedings of a Colloquium, Kilometric Optical Arrays in Space* (Cargese, Corsica), p. 121. Noordwijk, The Netherlands: ESTEK, 1985.
- Fazio, G. G.; Bleeker, J. A. M.; deKorte, P. A. J.; and Caldwell, J. J. (Editors) *Astronomy from Space*, vol. 5, *Advances in Space Research*. Oxford, England: Pergamon Press, 1985.
- Feretti, L.; Gioia, I. M.; Giovannini, G.; Gregorini, L.; and Padrielli, L. "High Resolution Radio and X-ray Observations of Abell 115." *Astronomy and Astrophysics* 139(1984):50.
- Ferrari, A.; Trussoni, E.; Rosner, R.; and Tsinganos, K. "On Wind-Type Flows in Astrophysical Jets. I. The Initial Relativistic Acceleration." *Astrophysical Journal* 294(1985):397.
- Fesen, R. A.; Blair, W. P.; and Kirshner, R. G. "Optical Emission-Line Properties of Evolved Galactic Supernova Remnants." *Astrophysical Journal* 292(1985):29.
- Field, G. B., and Chaisson, E. *The Invisible Universe*. Cambridge, Massachusetts: Birkhauser, 1984.
- Fireman, E. L. "Radioactive Dating of Byrd Core and Allan Hills Ice." *Antarctic Journal of the United States* 18(5)(1984):111.
- Fireman, E. L.; Cleveland, B. T.; Davis, R.; and Rowley, J. K. "Cosmic-Ray Depth Studies at the Homestake Mine with $^{39}\text{K}^{37}\text{Ar}$ Detectors." In *Proceedings of the American Institute of Physics*, vol. 126, p. 22. New York: American Institute of Physics, 1984.
- Fireman, E. L.; Jull, A. T. J.; Donahue, D. J.; and Zabel, T. H. "Carbon-14 Ages of Antarctic Meteorites with Accelerator and Small-Volume Counting Techniques." *Journal of Geophysical Research Supplement* 89(1984): 329.
- Forman, W.; Jones, C.; and DeFaccio, M. "X-ray Survey of the Virgo Cluster." In *ESO Workshop on the Virgo Cluster*, eds. D. G. Richter and B. Binggeli, p. 323. European Southern Observatory Publication, 1985.
- Forman, W.; Jones, C.; and Tucker, W. "Hot Gaseous Coronae Around Early-Type Galaxies." *The Astrophysical Journal* 293(1985):102.
- Franklin, F. A., and Aksnes, K. "Predictions of Mutual Phenomena of the Galilean Satellites." *Icarus* 60(1984):180.
- . "Upcoming Mutual Events of Jupiter's Moons." *Sky and Telescope* 69(1985):116.
- Freeman, D. E.; Yoshino, K.; Esmond, J. R.; and Parkinson, W. H. "High Resolution Absorption Cross Section Measurements of SO_2 at 213 K in the Wavelength Region 172-240 nm." *Planetary and Space Science* 32(1984):1125.
- . "Absolute Absorption Cross Section Measurements of Ozone." In *Atmospheric Ozone*, eds. C.S. Zerefos and A. Ghazi, p. 622. Dordrecht, Holland: D. Reidel Publishing Company, 1985.
- Garay, G.; Reid, M. J.; and Moran, J. M. "VLA Observations of Recombination Lines of Compact HII Regions Associated with OH Maser Emission." *Astrophysical Journal* 289(1985):681.
- Geller, M. J.; de Lapparent, V.; and Kurtz, M. J. "The Shane- Wirtanen Counts." *Astrophysical Journal (Letters)* 287(1984): L55.
- Giampapa, M. S., and Rosner, R. "The Appearance of Magnetic Flux on the Surfaces of the Early Main-Sequence F Stars." *The Astrophysical Journal (Letters)* 286(1984):L19.
- Gingerich, O. "Astronomical Institutions—Introduction." In *The General History of Astronomy*, ed. O. Gingerich, p. 111. Cambridge, England: Cambridge University Press, 1984.
- . "The 1784 Autobiography of William Herschel." *Harvard Library Bulletin* 32(1984):73.
- . "The Phases of Venus in 1610." *Journal for the History of Astronomy* 15(1984):209.
- . "Reflections on a Seminar on the Recording and Preservation of Astronomical Manuscripts." *Bollettino del Centro Internazionale Beltrame di Storia dello Spazio e del Tempo* (Numbers 3-4)(1984):79.
- . "The International Copernicus Census and the New Paduan Copies of the De Revolutionibus."

- Bollettino del Centro Internazionale Beltrame di Storia dello Spazio e del Tempo* (Numbers 3-4)(1984):145.
- . "The Discovery of the Spiral Arms of the Milky Way." In *The Proceedings of I.A.U. Symposium No. 106, The Milky Way*, eds. H. Van Woerden, R. J. Allen, and W. B. Burton, p. 59. Dordrecht, Holland: D. Reidel Publishing Company, 1985.
- . "Did Copernicus Owe a Debt to Aristarchus?" *Journal for the History of Astronomy* 16(1985):36.
- . "The Shapley-Curtis Debate." In *Universe*, ed. W. J. Kaufman III, p. 492. New York: W. H. Freeman and Co., 1985.
- . "Introduction." In *The Astronomical Scrapbook: Skywatchers, Pioneers, and Seekers in Astronomy*, by J. Ashbrook, p. v. Cambridge, Massachusetts: Sky Publishing Corporation, 1984.
- . "The Accuracy of Ephemerides, 1500-1800." *Vistas in Astronomy* 28(1985):339.
- . "The Astronomy of Alfonso the Wise." *Sky and Telescope* 69(1985):206.
- . "Ptolemaic Astronomy for an Emperor's Eyes." *Sky and Telescope* 69(1985):406.
- . "Robert Trumpler and the Dustiness of Space." *Sky and Telescope* 70(1985):213.
- Gingerich, O., and Welther, B. "Some Puzzles of Ptolemy's Star Catalogue." *Sky and Telescope* 67(1984):421.
- Gioia, I. M. "From the Universe at Large to the Stars Near Us: An X-ray Survey at Faint Fluxes." In *X-ray Astronomy '84*, eds. M. Oda and R. Giacconi, p. 349. Tokyo, Japan: Institute for Science and Astronautical Science, 1985.
- Gioia, I. M.; Maccacaro, T.; Maccagni, D.; and Stocke, J. "On the Surface Density of X-ray Selected BL Lac Objects." In *Proceedings of the Garching Meeting on X-ray and UV Emission from Active Galactic Nuclei*, eds. W. Brinkmann and J. Trumper, MPE Report 184(1984):135.
- Goldberg, Z. M., and Reasenberg, R. D. "Venus Gravity West of Beta Regio." *Icarus* 62(1985):129.
- Gorenstein, M. V.; Shapiro, I. I.; Rogers, A. E. E.; Cohen, N. L.; Corey, B. E.; Porcas, R. W.; Falco, E. E.; Bonometti, R. J.; Preston, R. A.; Rius, A.; and Whitney, A. R. "The Milliarsecond Images of Q0957+561." *Astrophysical Journal* 287(1984):538.
- Grindlay, J. E. "Studies of Galactic X-ray Sources." In *Proceedings of the Workshop on Non-Thermal and Very High Temperature Phenomena in X-ray Astronomy*, eds. G. C. Perola and L. Salvati, p. 17. Rome, Italy: Istituto Astronomico (1985).
- . "X-ray Sources as Dynamical Tracers in Globular Clusters." In *Dynamics of Star Clusters*, Proceedings of IAU Symposium 113, eds. J. Goodman and P. Hutt, p. 89. Dordrecht, Holland: D. Reidel Publishing Company, 1985.
- Grindlay, J. E., and Hertz, P. "Galactic Bulge X-ray Burst Sources from Disrupted Globular Clusters?" In *Cataclysmic Variables and Low Mass X-ray Binaries*, eds. D. R. Lamb and J. Patterson, p. 79. Dordrecht, Holland: D. Reidel Publishing Company, 1985.
- Grossi, M. D., and Tacconi, G. "Editorial for Special Issue on Beam-Forming." *IEEE Journal of Oceanic Engineering* OE-10(3) (1985):197.
- Gullahorn, G. E.; Fuligni, F.; and Grossi, M. D. "Gravity Gradiometry from the Tethered Satellite System" *IEEE Transactions on Geoscience and Remote Sensing* GE-23(1985):531.
- Guth, A. H. "The Inflationary Universe." In *Shelter Island II (Proceedings)*, eds. R. Jackiw, N. Khuri, S. Weinberg, and E. Witten, p. 171. Cambridge, Massachusetts: The MIT Press, 1985.
- Gwinn, C. R.; Taylor, J. H.; Weisberg, J. M.; and Rawley, L. A. "The Parallax of PSR 0950+08 and the Local Interstellar Medium." In *I.A.U. Colloquium 81, The Local Interstellar Medium*, eds. Y. Kondo, F. C. Bruhweiler, and B. D. Savage, p. 281. Baltimore, Maryland: NASA Conference Publication 2345, 1984.
- Habbal, S. R., and Rosner, R. "Temporal Evolution of the Solar Wind and the Formation of a Standing Shock." *Journal of Geophysical Research* 90(1985):199.
- Harmon, J. K.; Campbell, D. B.; Head, J. W.; Bindschadler, D. L.; and Shapiro, I. I. "Mercury Radar Altimetry: A Preliminary Analysis." *Lunar and Planetary Science* XV(1984):343.
- Harnden, F. R., Jr. "X-rays from Non-Accreting Pulsars." In *Galactic and Extragalactic Compact X-ray Sources*, (Proceedings of the Japan-U.S. Seminar), eds. Y. Tanaka and W. H. G. Lewin, p. 239. Tokyo, Japan: Institute for Space and Astronautical Science, 1985.
- Harris, D. E., and Johnson, H. M. "High Resolution X-ray Observations of Nearby Binary Systems: Flaring and Evidence for Unseen Companions." *Astrophysical Journal* 294(1985):649.

- Hartmann, L. "Winds from Pre-Main Sequence Stars." In *Comments on Astrophysics* X(1984):97.
- Hartmann, L.; Huchra, J. P.; and Geller, M. J. "How to Find Galaxies at High Redshift." *Astrophysical Journal* 287(1984):487.
- Hartmann, L.; Jordan, C.; Brown, A.; and Dupree, A. K. "On the Outer Atmospheres of Hybrid Stars." *Astrophysical Journal* 296 (1985):576.
- Haschick, A. D., and Ho, P. T. P. "Formation of OB Clusters: CO, NH₃, and H₂O Observations of the Distant HII Region Complex in S128." *Astrophysical Journal* 292(1985):200.
- Hazen-Liller, M. "Photoelectric Sequences Near Nine Galactic Globular Clusters." *Astronomical Journal* 89(1984):1551.
- . "The Variable Stars in the Field of the Globular Cluster NGC 6569." *Astronomical Journal* 90(1985):1807.
- Herbold, G.; Ulmschneider, P.; Spruit, H. C.; and Rosner, R. "Propagation of Nonlinear Radiatively-Damped Longitudinal Waves Along Magnetic Flux Tubes." *Astronomy and Astrophysics* 145(1985):157.
- Ho, P. T. P.; Jackson, J. M.; Barrett, A. H.; and Armstrong, J. T. "Interactions Between the Continuum Sources in the Galactic Center and Their Immediate Molecular Environment." *Astrophysical Journal* 288(1985):575.
- Huchra, J. "On Contemporary Observational Cosmology: When Did It All Begin?" In *Studies in Jewish Philosophy*, IV, Academy for Jewish Philosophy, 1984.
- . "The Virgo Cluster Redshift Survey." In *The Virgo Cluster*, eds. O. Richter and B. Binggeli, p. 181. Garching, Germany: European Southern Observatory, 1985.
- Huchra, J.; Gorenstein, M.; Kent, S.; Shapiro, I. I.; Smith, G.; Horine, E.; and Perley, R. "2237+0305: A New and Unusual Gravitational Lens." *Astronomical Journal* 90(1985):691.
- Hughes, J. P., and Helfand, D. J. "Self-Consistent Models for the X-ray Emission from Supernova Remnants: Application to Kepler's SNR." *The Astrophysical Journal* 291(1985):544.
- Hummer, D. G., and Rybicki, G. B. "The Sobolev Approximation for Line Formation with Continuous Opacity." *Astrophysical Journal* 293(1985):258.
- Johnson, B. C.; Smith, P. L.; and Knight, R. D. "The Radiative Lifetime of the $^5S_2^0$ Metastable Level of O²⁺." *Astrophysical Journal* 281(1984):477.
- Jones, C., and Forman, W. "Hot Gas in Early Type Galaxies." In *X-ray Astronomy '84*, eds. M. Oda and R. Giacconi, p. 355. Tokyo, Japan: Institute for Space and Astronautical Science, 1985.
- Kalkofen, W. "Ayres' Bifurcated Solar Model." In *Chromospheric Diagnostics and Modelling*, ed. B. W. Lites, p. 272. Sunspot, New Mexico: National Solar Observatory, 1985.
- . "IAU Report on Numerical Methods in Radiative Transfer." In *Reports on Astronomy*, p. 504. Dordrecht, Holland: D. Reidel Publishing Company, 1985.
- . "Numerical Methods in Radiative Transfer." In *Progress in Stellar Spectral Line Formation Theory*, eds. J. E. Beckman and L. Crivellari, p. 153. Dordrecht, Holland: D. Reidel Publishing Company, 1985.
- . "Partial versus Complete Linearization." In *Progress in Stellar Spectral Line Formation*, eds. J. E. Beckman and L. Crivellari, p. 169. Dordrecht, Holland: D. Reidel Publishing Company, 1985.
- Kalkofen, W.; Ulmschneider, P.; and Schmitz, F. "Apparent Solar Temperature Enhancement Due to Large Amplitude Waves." *Astrophysical Journal* 287(1984):952.
- Kalata, K. "A General Purpose Computer Configurable Television Area Detector for X-ray Diffraction Applications." *Methods in Enzymology* 114(1985):486.
- Kalata, K.; Murray, S. S.; and Chappell, J. H. "Configuration and Performance of a Television X-ray Detector System for Imaging and Diffraction Applications." *Advances in Electronic Electron Physics* 64B(1985):509.
- Kallne, E.; Kallne, J.; Dalgarno, A.; Marmar, E. S.; Rice, J. E.; and Pradhan, A. K. "Observations of Recombination Population of n=2 Excited States of Ar 16+ in Tokamak Plasmas." *Physical Review Letters* 52(1984):2245.
- Kent, S. M. "Photometry of Stars in the uvgr System." *Publications of the Astronomical Society of the Pacific* 97(1985):165.
- Kohl, J. L.; Gardner, L. D.; Lafyatis, G. P.; Young, A. R.; and Chutjian, A. "Photo-Ion Coincidence Measurements of Dielectronic Recombination in C³⁺." In *Atomic Excitations and Recombination in*

- External Fields*, eds. M. H. Nayfeh and C. Clar, p. 421. New York: Gordon and Breach Science Publisher, 1985.
- Kenyon, S. J. "Physical Models for the UV Continua of Symbiotic Stars." In *Future of UV Astronomy Based on Six Years of IUE Research*, eds. J. M. Mead, R. D. Chapman, and Y. Kondo, p. 408. Baltimore, Maryland: NASA Conference Publication 2349, 1984.
- . "Accretion Disks in Symbiotic Stars and Their Relation to Cataclysmic Variables." In *Cataclysmic Variables and Low Mass X-Ray Binaries*, eds. D. Q. Lamb and J. Patterson, p. 417. Dordrecht, Holland: D. Reidel Publishing Company, 1985.
- . "Symbiotic Stars." In *Interacting Binaries, Proceedings of NATO Advanced Study Institute*, eds. P. P. Eggleton and J. E. Pringle, p. 179. Dordrecht, Holland: D. Reidel Publishing Company, 1985.
- Kenyon, S. J., and Gallagher, J. S. "Spectroscopy of the Winds from Hubble-Sandage Stars in M31 and M33." *Astrophysical Journal* 290(1985):542.
- Kenyon, S. J.; Michalitsianos, A. G.; Lutz, J. H.; and Kafatos, M. "The 1984 Eclipse of the Symbiotic Binary SY Muscae." *Publications of the Astronomical Society of the Pacific* 97(1985):268.
- Kirshner, R. P. "Astrophysical Distances to Type II Supernovae." In *Supernova as Distances Indicators*, ed. N. Bartel, p. 171. New York: Springer-Verlag, 1985.
- . "Giant Voids in the Universe." In *Science Year 1985*, p. 181. Chicago, Illinois: Encyclopedia Britannica, 1985.
- Koch, D. "Using the ET for Gamma-Ray Astronomy." In *Proceedings of the Workshop on Gamma-Ray and High Energy Gamma-Ray Experiments for the Space Station Era*, eds. V. Jones and J. Wefel, p. 454. Baton Rouge: Louisiana State University, 1985.
- . "Results of a Study to Build a Gamma-Ray Telescope in an External Tank." *Proceedings of the 19th International Cosmic Ray Conference* (La Jolla, USA) 3(1985):363.
- Kurtz, M. J. "Progress in Automation Techniques for MK Classification." *The MK Process and Stellar Classification*, ed. R. F. Garrison, p. 136. Toronto, Canada: David Dunlap Observatory, 1985.
- Kurtz, M.; Huchra, J. P.; Beers, T. C.; Geller, M. J.; Gioia, I. M.; Maccacaro, T.; Schild, R. E.; and Stauffer, J. R. "The X-ray Cluster Abell 744." *Astronomical Journal* 90(1985):1665.
- Kurucz, R. L.; Furenlid, I.; Brault, J.; and Testerman, L. *Solar Flux Atlas from 296 to 1300 nm*. Sunspot, New Mexico: National Solar Observatory, 1984.
- Kwok, T. L.; Dalgarno, A.; and Posen, A. "Transition Probabilities of the $B^1\Sigma_u \rightarrow X^1\Sigma_g^+$ System of Molecular Hydrogen." *Physics Review A* 32(1985):646.
- Lacasse, M. G., and Traub, W. A. "COSMIC Image Reconstruction." In *Colloquium on Kilometric Optical Arrays in Space*, p. 133. Paris, France: European Space Agency, 1985.
- Lamb, D. K.; Aly, J.-J.; Cook, M. C.; and Lamb, D. Q. "Synchronization of Magnetic White Dwarfs in Close Binary Systems." In *Cataclysmic Variables and Low Mass X-Ray Variables*, eds. D. Q. Lamb and J. Patterson, p. 237. Dordrecht, Holland: D. Reidel Publishing Company, 1984.
- Lamb, D. Q. "Physics of Gamma-Ray Burst Spectra." In *High Energy Transients in Astrophysics, AIP Conference Proceedings No. 115*, ed. S. E. Woosley, p. 512. New York: American Institute of Physics, 1984.
- . "Recent Developments in the Theory of AM Her and DQ Her Stars." In *Cataclysmic Variables and Low Mass X-Ray Binaries*, eds. D. Q. Lamb and J. Patterson, p. 179. Dordrecht, Holland: D. Reidel Publishing Company, 1984.
- Lamb, D. Q.; Lattimer, J. M.; Pethick, C. J.; and Ravenhall, D. G. "Physical Properties of Hot, Dense Matter: The General Case." *Nuclear Physics A* 432(1985):646.
- Lamb, D. Q., and Patterson, J. (Editors). *Cataclysmic Variables and Low Mass X-Ray Binaries*. Dordrecht, Holland: D. Reidel Publishing Company, 1984.
- LaSala, J., and Kurtz, M. J. "A Fast, Reliable Spectral Rectification Technique." *Publications of the Astronomical Society of the Pacific* 97(1985):605.
- Latham, D. W. "Digital Stellar Speedometry." In *I.A.U. Colloquium No. 88, Stellar Radial Velocities*, eds. A. G. D. Philip and D. W. Latham, p. 21. Schenectady, New York: L. Davis Press, 1985.
- Latham, D. W.; Carney, B. W.; and Stefanik, R. P.; "A Search for Halo Binaries: The First Results." In *Proceedings of I.A.U. Colloquium No. 88, Stellar Radial Velocities*, eds. A. G. D. Philip and D.

- W. Latham, p. 381. Schenectady, New York: L. Davis Press, 1985.
- Latham, D. W.; Hazen-Liller, M. L.; and Pryor, C. P. In *Proceedings of I.A.U. Colloquium No. 88, Stellar Velocities*, eds. A. G. D. Philip and D. W. Latham, p. 264. Schenectady, New York: L. Davis Press, 1985.
- Lawrence, A.; Ward, M. J.; Elvis, M.; Fabbiano, G.; Willner, S. P.; Carleton, N. P.; and Longmore, A. "1-20 μm Observations of Low Luminosity Active Nuclei." *Astrophysical Journal* 291 (1985):117.
- Leopold, K. R.; Fraser, G. T.; Lin, F. J.; Nelson, D. D., Jr.; and Klemperer, W. "Microwave and Radiofrequency Stark Spectrum of ArHCN: A Highly Nonrigid Molecule." *Journal of Chemical Physics* 81(1984):4922.
- Lepp, S.; McCray, R.; Shull, J. M.; Woods, D. T.; and Kallman, T. "Thermal Phases of Interstellar and Quasar Gas." *Astrophysical Journal* 288(1985):58.
- Lo, K. Y.; Backer, D. C.; Ekers, R. D.; Kellermann, I. I.; Reid, M. J.; and Moran, J. M. "On the Size of the Galactic Center Compact Radio Source: Diameter 21 AU." *Nature* 315(1985):124.
- Maccacaro, T. "X-ray Surveys of Quasars with the Einstein Observatory, in X-ray and UV Emission from AGNs." In *Proceedings of the Garching Meeting on X-ray and UV Emission from Active Galactic Nuclei*, eds. W. Brinkmann and J. Trumper, MPE Report 184(1984):63.
- Maccacaro, T., and Gioia, I. M. "Extragalactic X-ray Sources Counts and Optical Identifications." In *Proceedings of Non-Thermal and Very High Temperature Phenomena in X-ray Astronomy*, eds. G. T. Perola and M. Salvati, p. 147. Rome, Italy: Istituto Astronomico, 1985.
- Malumuth, E. M., and Kirshner, R. P. "Dynamics of Luminous Galaxies. II. Surface Photometry and Velocity Dispersions of Brightest Cluster Members." *Astrophysical Journal* 291(1985):8.
- Maraschi, S.; Schwartz, D. A.; Tanzi, E. G.; and Treves, A. "Multifrequency Observations of the BL Lac Object PKS 0547-441." *Astrophysical Journal* 294(1985):615.
- Marcaide, J. M.; Bartel, N.; Gorenstein, M. V.; Shapiro, I. I.; Corey, B. E.; Rogers, A. E. E.; Webber, J. C.; Clark, T. A.; Romney, J. D.; and Preston, R. A. "The Quasar 4C39.25 is Not Contracting." *Nature* 314(1985):424.
- Marcaide, J. M.; Shapiro, I. I.; Corey, B. E.; Cotton, W. D.; Gorenstein, M. V.; Rogers, A. E. E.; Romney, J. D.; Schild, R.; Ball, J.; Baath, L.; Bartel, N.; Cohen, N. L.; Clark, T. A.; Preston, R. A.; Ratner, M. I.; and Whitney, A. R. "On the Quasars 1038+528 A and B." *Astronomy and Astrophysics* 142(1985):71.
- Marsden, B. G. "Remarks on Cometary Astrometry." In *Cometary Astrometry*, eds. D. K. Yeomans, R. M. West, R. S. Harrington, and B. G. Marsden, p. 27. Pasadena, California: Jet Propulsion Laboratory, 1984.
- . "Nongravitational Effects." In *Cometary Astrometry*, eds. D. K. Yeomans, R. M. West, R. S. Harrington, and B. G. Marsden, p. 27. Pasadena, California: Jet Propulsion Laboratory, 1984.
- . (editor and contributor). *International Astronomical Union Circular Nos. 3995-4024*, 1984; *International Astronomical Union Circular Nos. 4025-4086*, 1985.
- . (editor and contributor). *Minor Planet Circular Nos. 9121-9314*, 1984; *Minor Planet Circular Nos. 9315-9842*, 1985.
- . "Annual Report of the Central Bureau for Astronomical Telegrams." *International Information Bulletin No. 53*, (1985).
- . "Annual Report of the Minor Planet Center." *International Astronomical Union Information Bulletin No. 53*, (1985):18.
- . "Comets in 1979." *Quarterly Journal of the Royal Astronomical Society* 26(1985):106.
- . "Orbits for Amateurs with a Microcomputer (review)." *Sky and Telescope* 69(1985):322.
- . "Nongravitational Forces on Comets: The First Fifteen Years." In *Dynamics of Comets*, eds. A. Carusi and G. B. Valsecchi, p. 343. Dordrecht, Holland: D. Reidel Publishing Company, 1985.
- . "Supernovae Up Close." In *Supernovae as Distance Indicators*, ed. N. Bartel, p. 222. Berlin: Springer-Verlag, 1985.
- . "Comets in 1980." *Quarterly Journal of the Royal Astronomical Society* 26(1985):156.
- . "Magnetic Tape of Observations of Minor Planets and Comets." Minor Planet Center, 373,847 entries.
- Marsden, B. G., and Green, D. W. E. "Comets in 1977." *Quarterly Journal of the Royal Astronomical Society* 26(1985):81.

- . "Comets in 1978." *Quarterly Journal of the Royal Astronomical Society* 26(1985):92.
- . "Initial Orbit Determination: The Pragmatist's View." *Astronomical Journal* 90(1985):1541.
- Marsden, B. G.; Green, D. W. E.; and Roemer, E. "Comets in 1976." *Quarterly Journal of the Royal Astronomical Society* 26(1985):68.
- Marvin, U. B., and Walker, D. "A Transient Heating Event in the History of a Highlands Trocolite from Apollo 12 Soin 12033." In *Proceedings of the 15th Lunar and Planetary Science Conference* 90, C421. Houston, Texas: Lunar and Planetary Science Institute, 1985.
- Marvin, U. B., and Lindstrom, M. M. "Geochemistry and Petrology of Clasts from North Ray Crater Breccia 67015." In *Lunar and Planetary Science XVI* 2(1985):495.
- Mathieu, R. D. "The Structure and Internal Dynamics of Open Clusters." In *Dynamics of Star Clusters*, eds. J. Goodman and P. Hut, p. 427. Dordrecht, Holland: D. Reidel Publishing Company, 1985.
- . "Radial Velocity Studies of the Internal Kinematics of Open Clusters." In *Proceedings I.A.U. Colloquium No. 88, Stellar Radial Velocities*, eds. A. G. D. Philip and D. W. Latham, p. 249. Schenectady, New York: L. Davis Press, 1985.
- Mathieu, R. D.; Hartmann, L.; and Latham, D. W. "Stellar Kinematics in Star-Forming Regions." In *I.A.U. Colloquium No. 88, Stellar Radial Velocities*, eds. A. G. D. Philip and D. W. Latham, p. 263. Schenectady, New York: L. Davis Press, 1985.
- Mathieu, R. D.; Stefanik, R. P.; and Latham, D. W. "The Binary Population of the Hyades." In *Proceedings I.A.U. Colloquium No. 88, Stellar Radial Velocities*, eds. A. G. D. Philip and D. W. Latham, p. 385. Schenectady, New York: L. Davis Press, 1985.
- Mattison, E. M.; Vessot, R. F. C.; and Shen, W. "Measurement and Interpretation of Hydrogen Maser Quality Parameters." In *Proceedings of 39th Annual Frequency Control Symposium*, p. 72. Ft. Monmouth, New Jersey: U.S. Army Electronics Laboratory, 1985.
- Mattison, E. M.; Vessot, R. F. C.; and Jacobs, S. F. "Properties of Low-Expansion Materials for Hydrogen Maser Cavities." In *Proceedings of 39th Annual Frequency Control Symposium*, p. 75. Ft. Monmouth, New Jersey: U.S. Army Electronics Laboratory, 1985.
- Mauche, C.; Gorenstein, P.; and Fabricant, D. "Measurements of X-ray Scattering from Interstellar Dust." *Advanced Space Research* 5(1985):141.
- McClintock, J. E., and Rappaport, S. A. "Low-Mass X-ray Binaries." In *Cataclysmic Variables and Low-Mass X-ray Binaries*, eds. D. Q. Lamb and J. Patterson, p. 61. Dordrecht, Holland: D. Reidel Publishing Company, 1985.
- Micela, G.; Sciortino, S.; Serio, S.; Vaiana, G. S.; Golub, L.; Harnden, F. R., Jr.; and Rosner, R. "Einstein X-ray Survey of the Pleiades: The Dependence of X-ray Luminosity on Stellar Age." *Astrophysical Journal* 292(1985):172.
- Molnar, L. A.; Reid, M. J.; and Grindlay, J. E. "Confirmation of Radio Periodicity in Cygnus X-3." In *Radio Stars*, eds. R. Hjellming and D. M. Gibson, p. 329. Dordrecht, Holland: D. Reidel Publishing Company, 1985.
- Moran, J. M. "The SAO Submillimeter Telescope Array Project." In *Proceedings of the International Symposium on Millimeter and Submillimeter Astronomy*, ed. J. Gomez-Gonzalez, p. 89. Granada, Spain: International Union of Radio Science, 1985.
- Murcray, D. G.; Goldman, A.; Kosters, J.; Zander, R.; Evans, W.; Louisnard, N.; Alamichel, C.; Bangham, M.; Pollitt, S.; Carli, B.; Dinelli, B.; Piccioli, S.; Volboni, A.; Traub, W.; and Chance, K. "Intercomparison of Stratospheric Water Vapor Profiles Obtained During the Balloon Intercomparison Campaign." In *Proceedings of the Quadrennial Ozone Symposium*, eds. C. S. Zerefos and A. Ghazi, p. 144. Hingham, Massachusetts: D. Reidel Publishing Company, 1984.
- Myers, P. C. "Star Formation in Dense Cores in Nearby Dark Clouds." In *Proceedings of the International Symposium on Millimeter and Submillimeter Wave Radio Astronomy*, ed. J. Gomez-Gonzalez, p. 251. Granada, Spain: International Union of Radio Science, 1985.
- Nemec, J. M.; Hazen-Liller, M. L.; and Hesser, J. E. "The Secular Period Behaviour of 38 RR Lyrae Stars in the LMC Globular Cluster NGC 2257." *Astrophysical Journal Supplements* 57(1985):329.
- . "Period Changes of RR Lyrae Stars in the LMC Globular Cluster NGC 2257." In *Proceedings I.A.U. Symposium No. 108*, eds. S. van den Bergh and K. S. de Boer, p. 39. Dordrecht, Holland: D. Reidel Publishing Company, 1985.

- Noyes, R. W. "Stellar Magnetic Activity, Rotation, and Convection." *Advances in Space Research* 4(No. 8)(1984):151.
- Noyes, R. W.; Baliunas, S. L.; Belserene, E.; Duncan, D. K.; Horne, J.; and Widrow, L. "Evidence for Global Oscillations in the K2 Dwarf Epsilon Eridani." *Astrophysical Journal (Letters)* 285(1984):L23.
- Noyes, R. W., and Rhodes, E. J. (Editors). "Probing the Depths of a Star: The Study of Solar Oscillations from Space," 76 pp. Pasadena, California: Jet Propulsion Laboratory, 1984.
- Noyes, R. W.; Weiss, N. O.; and Vaughan, A. H. "The Relation Between Stellar Rotation Rate and Activity Cycle Periods." *Astrophysical Journal* 287(1984):769.
- Ostro, S. J.; Campbell, D. B.; and Shapiro, I. I. "Mainbelt Asteroids: Dual-Polarization Radar Observations." *Science* 229(1985):442.
- Owocki, S. P., and Rybicki, G. B. "Effect of Scattering on Instabilities in the Line-Driven Stellar Winds." In *The Origin of Non-Radiative Heating/Momentum in Hot Stars*, eds. A. B. Underhill and A. G. Michalitsianos, p. 221. Greenbelt, Maryland: NASA Conference Publication 2358, 1985.
- Patterson, J.; Beuermann, K.; Lamb, D. Q.; Fabbiano, G.; Raymond, J. C.; Swank, J.; and White, N. E. "VV Puppis, The Soft X-Ray Machine." *Astrophysical Journal* 279(1984):785.
- Patterson, J., and Raymond, J. C. "X-Ray Emission from Cataclysmic Variables with Accretion Disks. I. Hard X-Rays." *Astrophysical Journal* 292(1985):535.
- . "X-Ray Emission from Cataclysmic Variables with Accretion Disks. II. EUV/Soft X-Ray Radiation." *Astrophysical Journal* 292 (1985):550.
- Peterson, B. M.; Meyers, K. A.; Capriotti, E. R.; Foltz, C. B.; Wilkes, B. J.; and Miller, H. R. "The Variability of the Spectrum of Arakelian 120 II. Evidence for a Small Broad-Line Emitting Region." *Astrophysical Journal* 292(1985):164.
- Philip, A. G. D., and Latham, D. W. (Editors). *I.A.U. Colloquium No. 88, Stellar Radial Velocities*. Schenectady, New York: L. Davis Press, 1985.
- Pipher, J. L.; Willner, S. P.; and Fazio, G. G. "Infrared Astronomy on the Hubble Space Telescope." In *Advances in Space Research*, eds. G. G. Fazio, J. A. M. Bleeker, P. A. J. deKorte, and J. J. Caldwell, p. 173. Oxford, England: Pergamon Press, 1985.
- Porter, N. A.; Fegan, D. J.; MacNeill, G. C., and Weekes, T. C. "A Search for Evidence of Nuclearites in Astrophysical Pulse Experiments." *Nature* 316(1985):49.
- Postman, M.; Huchra, J. P.; Geller, M. J.; and Henry, J. P. "The Magnitude-Redshift Relation for 561 Clusters." *Astronomical Journal* 90(1985):1400.
- Pryor, C.; Latham, D. W.; and Hazen-Liller, M. H. "An Extension of the Search for Spectroscopic Binaries in M3." In *Proceedings I.A.U. Symposium No. 113, Dynamics of Star Clusters*, eds. P. Hut and J. Goodman. Dordrecht, Holland: D. Reidel Publishing Company, 1985.
- Raymond, J. C. "Observations of Supernova Remnants." *Annual Review of Astronomy and Astrophysics* 22(1985):75.
- Reasenberg, R. D. "Microarcsecond Astrometric Interferometry." In *Proceedings of the Workshop on High Angular Resolution Optical Interferometry from Space*, eds. P. B. Boyce and R. D. Reasenberg, *Bulletin of the American Astronomical Society* 16(3)(1984): 758.
- Reid, M. J., and Ho, P. T. P. "G34.3+0.2: A 'Cometary' HII Region." *Astrophysical Journal (Letters)* 288(1985):L17.
- Rengarajan, T. N.; Fazio G. G.; Maxson, C. W.; McBreen, B.; Serio, S.; and Sciortino, S. "Far-Infrared Observations of Two Southern HII Regions RCW122 and G351.6-1.3." *Astronomical Journal* 90(1985):88.
- Robbins, D.; Evans, W.; Louisnard, N.; Pollitt, S.; Traub, W.; Chance, K.; and Waters, J. "Ozone Intercomparisons from the Balloon Intercomparison Campaign." In *Proceedings of the Quadrennial Ozone Symposium*, eds. C. S. Zerefos and A. Ghazi, p. 454. Hingham, Massachusetts: D. Reidel Publishing Company, 1984.
- Roberts, D. H.; Greenfield, P. E.; Hewitt, J. N.; Burke, B. F.; and Dupree, A. A. "The Multiple Images of the Quasar 0957+561." *Astrophysical Journal* 293(1985):356.
- Rodriguez, L. F.; Garcia-Barreto, J. A.; Canto, J.; Moreno, M. A.; Torres-Peimbert, S.; Costero, R.; Moran, J. M.; and Garay, G. "Radio Observations of the Young Planetary Nebula NGC 6302." *Monthly Notices of the Royal Astronomical Society* 215 (1985):353.

- Rogers, A. E. E.; Moffet, A. T.; Backer, D. C.; and Moran, J. M. "Coherence Limits Imposed by Atmospheric Noise in VLBI Observations at 3-mm Wavelength." *Radio Science* 19(1983):1552.
- Rybicki, G. B. "Escape Probability Methods." In *Progress in Stellar Spectral Line Formation Theory*, eds. J. E. Beckman and L. Crivellari, p. 199. Dordrecht, Holland: D. Reidel Publishing Company, 1985.
- Sanders, D. B., and Willner, S. P. "The Orion B Molecular Jet." *Astrophysical Journal (Letters)* 293(1985):L39.
- Schild, R. "CCD Observations of Galaxies in Clusters at High Redshift." *Astrophysical Journal* 286(1984):450.
- Schild, R.; Huchra, J.; and Tresch-Feinberg, R. "CCD Photometry of the Seyfert Galaxy NGC 1068." *Astronomical Journal* 90 (1985):441.
- Schmitt, J. H. M. M.; Golub, L.; Harnden, F. R. Jr.; and Rosner, R. "An Einstein Observatory Survey of Late-Type Stars with Shallow Convection Zones." *Astrophysical Journal* 290(1985):307.
- Schmitt, J. H. M. M.; Harnden, F. R. Jr.; Peres, G.; Rosner, R.; and Serio, S. "The X-ray Corona of Procyon." *Astrophysical Journal* 288(1985):751.
- Schmitt, J. H. M. M., and Reid, M. J. "VLBI Observations of the Nucleus of M87 at Two Epochs." *Astrophysical Journal* 289(1985):120.
- Schmitz, F.; Ulmschneider, P.; and Kalkofen, W. "Acoustic Waves in the Solar Atmosphere VII: Non-Grey non-LTE models." *Astronomy and Astrophysics* 148(1985):217.
- Schrijver, C. J.; Zwaan, C.; Maxson, C. W.; and Noyes, R. W. "Study of Ultraviolet and X-ray Emissions of Selected Solar Regions." *Astronomy and Astrophysics* 149(1985):123.
- Schwartz, D.; Bradt, H.; Buckley, D.; Patterson, J.; Remillard, R.; Roberts, W.; and Tuohy, I. "New Identifications of Bright X-ray Sources with the HEAO-1 Scanning Modulation Collimator." In *Astronomy '84*, eds. M. Oda and R. Giacconi, p. 455. Tokyo, Japan: Institute for Space and Astronautical Science, 1985.
- . "Recent Optical Identifications of HEAO-1 X-ray Sources." *Advanced Space Research* 5(1985):137.
- Seward, F. D. "Supernova Remnants Containing Neutron Stars." *Comments on Astrophysics* 11(1985):15.
- Seward, F. D.; Gorenstein, P.; and Tucker, W. H. "Young Supernova Remnants." *Scientific American* 253(1985):88.
- Seward, F. D.; Harnden, F. R., Jr.; and Elsner, R. F. "The 50 Millisecond Pulsar in the Large Magellanic Cloud and the X-ray Pulsar Emission Mechanism." In *The Crab Nebula and Related Supernova Remnants*, eds. M. C. Kafatos and R. C. Henry, p. 165. Cambridge, England: Cambridge University Press, 1985.
- Seward, F. D.; Harnden, F. R. Jr.; and Helfand, D. "Discovery of a 50 millisecc Pulsar in the Large Magellanic Cloud." *Astrophysical Journal (Letters)* 287(1984):L19.
- . "Discovery of a 50 millisecc Pulsar in the Large Magellanic Cloud." In *X-ray Astronomy '84*, eds. M. Oda and R. Giacconi, p. 297. Tokyo, Japan: Institute for Space and Astronautical Science, 1985.
- Shao, M.; Colavita, M.; Staelin, D.; and Johnston, K. "The Technology Requirements for a Small Space-Based Astrometric Interferometer." In *Proceedings of the Workshop on High Angular Resolution Optical Interferometry From Space*, eds. P. B. Boyce and R. D. Reasenberg, *Bulletin of the American Astronomical Society* 16(3)(1984):750.
- Smith, P. L.; Johnson, B. C.; Kwong, H. S.; and Parkinson, W. H. "Measurements of Transition Probabilities for Spin-Changing Lines of Atomic Ions Used in Diagnostics of Astrophysical Plasmas." *Physica Scripta* TA8(1984):88.
- Smith, P. L.; Magnusson, C. E.; and Zetterberg, P. O. "Laboratory Identification of the $3s^2 3p^2 \ ^3P_{2,1} - 3s3p^3 \ ^5S_0$ Intersystem Lines of S III." *Astrophysical Journal (Letters)* 277(1984):L79.
- Spergel, D. N., and Press, W. H. "Effect of Hypothetical, Weakly- Interacting, Massive Particles on Energy Transport in the Solar Interior." *Astrophysical Journal* 294(1985):663.
- . "Capture of the Sun of a Galactic Population of Weakly-Interacting, Massive Particles." *Astrophysical Journal* 296(1985):679.

- Stachnik, R. V., and Gezari, D. Y. "SAMSI: A Orbiting Spatial Interferometer for Microarcsecond Astronomical Observations." In *Proceedings of a Colloquium "Kilometric Optical Arrays in Space,"* (Cargese, Corsica), ESA SP-226, p. 35. Noordwijk, The Netherlands: ESTEK, 1985.
- Starrfield, S.; Kenyon, S.; Truran, J. W.; and Sparks, W. M. "Hydrodynamic Simulation of a Combined Hydrogen-Helium Thermonuclear Runaway on a 10-km Neutron Star." In *Cataclysmic Variables and Low Mass X-Ray Binaries*, eds. D. Q. Lamb and J. Patterson, p. 133. Dordrecht, Holland: D. Reidel Publishing Company, 1985.
- Stauffer, J. R.; Hartmann, L.; Burnham, N.; and Jones, B. F. "Evolution of Low Mass Stars in the α Persei Cluster." *Astrophysical Journal* 289(1985):247.
- Stefanik, R. P., and Latham, D. W. "The Hyades: Membership and Convergent Point From Radial Velocities." In *Proceedings I.A.U. Colloquium No. 88, Stellar Radial Velocities*, eds. A. G. D. Philip and D. W. Latham, p. 213. Schenectady, New York: L. Davis Press, 1985.
- Stier, M. T.; Jaffe, D. T.; Rengarajan, T. N.; Fazio, G. G.; Maxson, C. W.; McBreen, B.; Loughran, L.; Serio, S.; and Sciortino, S. "Far-Infrared and CO Observations of the W33 Complex." *Astrophysical Journal* 283(1985):573.
- Taylor, J. H.; Gwinn, C. R.; Weisberg, J. M.; and Rawley, L. A. "Pulsar Astrometry." In *Proceedings I.A.U. Symposium 110, VLBI and Compact Radio Sources*, eds. R. Fanti, K. Kellermann, and G. Setti, p. 347. Dordrecht, Holland: D. Reidel Publishing Company, 1984.
- Teske, R. G., and Kirshner, R. P. "An [Fe X] 16374 Image of a Part of the Cygnus Loop." *Astrophysical Journal* 292(1985):22.
- Torrelles, J. M.; Canto, J.; Rodriguez, L. F.; Ho, P. T. P.; and Moran, J. M. "An Ammonia Toroid Aligned Perpendicular to the HH1 and HH2 Bipolar Outflow." *Astrophysical Journal (Letters)* 294(1985):L117.
- Torrelles, J. M.; Ho, P. T. P.; Rodriguez, L. F.; and Canto, J. "VLA Observations of Ammonia and Continuum in Regions with High Velocity Gaseous Outflows." *Astrophysical Journal* 288(1985):595.
- Traub, W. A. "COSMIC: A High Resolution, Large Collecting Area Telescope." In *Proceedings of Colloquium on Kilometric Optical Arrays in Space*, eds. N. Longdon and O. Melita, p. 43. Paris, France: European Space Agency, 1985.
- Trinchieri, G.; and Fabbiano, G. "A Statistical Analysis of the Einstein Normal Galaxy Sample: II. Elliptical and SO Galaxies." *Astrophysical Journal* 296(1985):447.
- Trinchieri, G.; Fabbiano, G.; and Palumbo, G. G. C. "Detailed X-ray Observations of M82." *Astrophysical Journal* 290(1985):96.
- Tsinganos, K.; Ferrari, A.; and Rosner, R. "Quasi-two-dimensional Cosmic Jets." In *Proceedings I.A.U. Symposium 107, Unstable Current Systems and Plasma Instabilities in Astrophysics*, August 6-10, 1983, eds. M. R. Kundu and G. D. Holman, p. 497. Baltimore, Maryland: University of Maryland, 1985.
- Tucker, W., and Giacconi, R. *The X-ray Universe*. Cambridge, Massachusetts: Harvard University Press, 1985.
- Turner, J. L., and Welch, W. J. "Discovery of a Young Stellar Object Near the Water Masers in W3(OH)." *Astrophysical Journal (Letters)* 287(1984):L81.
- van Dishoeck, E. F., and Dalgarno, A. "The Dissociation of OH and OD in Comets by Solar Radiation." *Icarus* 59(1984):305.
- van Dishoeck, E. F.; van Hemert, M. C.; Allison, A. C.; and Dalgarno, A. "Resonances in the Photodissociation of OH by Absorption into Coupled $^2\Pi$ States: Adiabatic and Diabatic Formulations." *Journal of Chemical Physics* 81(1984):5709.
- Vessot, R. F. C. "Tests of Gravitation and Relativity." *Contemporary Physics* 25(1984):355.
- . "Tests of Gravitation and Relativity." In *Precision Measurements and Fundamental Constants II*, eds. B. N. Taylor and W. D. Phillips, *National Bureau of Standards (U.S.) Special Publications* 617(1984):611.
- Vessot, R. F. C.; Allan, D. W.; Alley, C. O.; Decher, R.; Penfield, H.; and Winkler, G. M. R. "A High Accuracy Spaceborne Worldwide Time and Frequency Comparison System." In *Proceedings of International Conference on Frequency and Time Metrology, Honzu, China (Sept. 1984)*, 1985.
- Vessot, R. F. C.; Mattison, E. M.; Imbier, E. A.; Zhai, Z. C.; Klepczynski, W. J.; Wheeler, P. G.; Kubik, A. J.; and Winkler, G. M. R. "Performance Data of U.S Naval Observatory VLG-11 Hydrogen

- Masers Since September 1984." In *Proceedings of the 16th Annual Precise Time and Time Interval Conference (Goddard Space Flight Center, Nov. 27-29, 1984)*, ed. R. L. Sydnor, p. 375. Washington, D.C.: NASA, 1984.
- Vessot, R. F. C.; Mattison, E. M.; Klepczynski, W. J.; Winkler, G. M. R.; Silvera, I. F.; and Godfried, H. P. "Present Clock Stability and Realistic Prospects for the Future." In *Proceedings of 4th Annual Marcel Grossman Meeting on General Relativity (Rome, Italy, June 17-21)*, 1985.
- Vessot, R. F. C.; Mattison, E. M.; and Zhai, Z. C. "Atomic Hydrogen Measurements with Wall Surfaces of Carbon Tetrafluoride." In *Proceedings of the 16th Annual Precise Time and Time Interval Conference, (Goddard Space Flight Center, Nov. 27-29, 1984)*, ed. R. L. Sydnor, p. 357. Washington, D.C.: NASA, 1984.
- Vrtilek, J. M., and Carlton, N. P. "Seyfert Galaxy Narrow-Line Regions. I. Observations of [O III] μ 5007." *Astrophysical Journal* 294(1985):106.
- Weekes, T. C. "A Third Generation VHE Gamma Ray Observatory." In *Proceedings of Workshop on Cosmic Ray and High Energy Gamma-Ray Experiments for the Space Station Era*, eds. V. Jones and J. Wefel, p. 497. Baton Rouge: Louisiana State University, 1985.
- . "An Observatory to Study 10^{10} to 10^{17} eV Gamma Rays." In *Proceedings of the 19th International Cosmic Ray Conference (La Jolla, USA)* 3(1985):422.
- Wehrse, R., and Kalkofen, W. "Resonance Lines in Dusty Gaseous Nebulae." *Astronomy and Astrophysics* 147(1985):71.
- Wetmore, R. W.; Fox, J. L.; and Dalgarno, A. "Radiative Lifetimes of the Second Negative System of the O_2 ." *Planetary and Space Science* 32(1984):1111.
- Whitney, C. "Semiregular Variables: Are They Chaotic or Ringing?" *Journal of the American Association of Variable Star Observations* 13(1)(1984).
- . "Generation and Testing of Pseudo-Random Numbers." *BYTE* October(1984):128.
- Whitney, C., and Aikawa, T. "Stellar Acoustics III. Pulse Propagation and Bump Features." *Astrophysical Journal* 296(1985):165.
- Whipple, F.L. "Comet P/Holmes, 1892 III - a Case of Duplicity?" *Icarus* 60(1984):522.
- Wilkes, B. J. "PG0946+301: A Low Redshift BAL QSO." *Astrophysical Journal (Letters)* 288(1985):L1.
- Withbroe, G. L.; Habbal, S. R.; and Ronan, R. S. "Impulsive Phenomena in a Small Active Region." *Solar Physics* 95(1985):297.
- Withbroe, G. L., and Raymond, J. C. "Plasma Diagnostics for the Outer Solar Corona, UV and XUV Fe XII Lines." *Astrophysical Journal* 285(1984):347.
- Witt, A., and Schild, R. "Colors of Reflection Nebulae. II. The Excitation of Extended Red Emission." *Astrophysical Journal* 294(1985):225.
- Wood, J. A. "Formation of Chondrules by Drag Heating in Dust-Enriched Environments." *Lunar and Planetary Science* XV(1984):933.
- . "On the Formation of Meteoritic Chondrules by Aerodynamic Drag Heating in the Solar Nebula." *Earth and Planetary Science Letters* 70(1984):11.
- . "An Overview of the Cosmic History of the Biogenic Elements and Compounds." In *Cosmic History of the Biogenic Elements and Compounds*, eds. J. A. Wood and S. Chang, NASA SP-476, p. 4-9. NASA, 1985.
- . "The Initiation of Chondrule Accretion after Chondrule Formation by Drag Heating." *Lunar and Planetary Science* XVI(1985):920.
- Wood, J. A., and Chang, S. (Editors) "Cosmic History of the Biogenic Elements and Compounds." NASA SP-476. NASA, 1985.
- Wood, J. A., and Kornacki, A. S. "The Mineral Chemistry and Origin of Inclusion Matrix in the Allende CV3 Chondrite." *Geochimica et Cosmochimica Acta* 48(1984):1663.
- . "Mineral Chemistry and Origin of Spinel-Rich Inclusions in the Allende CV3 Chondrite." *Geochimica et Cosmochimica Acta* 49 (1985):1219.
- . "The Identification of Group II Inclusions by Electron Probe Microanalysis." *Earth and Planetary Science Letters* 72(1985):74.
- Worrall, D. M. "BL Lacertae Objects: Multifrequency Observations and Model Applications." In *Proceedings of the Conference on X-ray and UV Emission from Active Galactic Nuclei*, eds. W.

- Brinkmann and J. Trumper, p. 11. MPE Report 184, 1984.
- Worrall, D. M.; Puschell, J. J.; Rodriguez-Espinosa, J. M.; Bruhweiler, F. C.; Miller, H. R.; Aller, M. F.; and Aller, H. D. "Multifrequency Spectral Behavior of the BL Lac Objects OI 90.4 and 3C 66A." *The Astrophysical Journal* 286(1984): 711.
- Yee, J.-H.; Abreu, V.J.; and Dalgarno, A. "Characteristics of the Spacecraft Optical Glow." *Geophysical Research Letters* 11(1984): 1192.
- Yee, J.-H., and Dalgarno, A. "Energy Transfer of $O(^1S)$ Atoms in Collision with $O(^3P)$ Atoms." *Planetary and Space Science* 33(1985):825.
- Yoshino, K., and Freeman, D.E. "High Resolution Vacuum Ultraviolet Absorption Spectrum of N_2 : Perturbations in the $c'_5(0)^1\Sigma_u^+$ and $c_4(0)^1\Pi_u$ Rydberg Levels." *Canadian Journal of Physics* 62(1984):1478.
- . "Absorption Spectrum of Xenon in the Vacuum-Ultraviolet Region." *Journal of the Optical Society of America B* 2(1985): 1268.
- Yoshino, K.; Freeman, D.E.; and Parkinson, W.H. "High Resolution Absorption Cross Section Measurements of N_2O at 295-299 K in the Wavelength Region 170-222 nm." *Planetary and Space Science* 32(1984):1219.
- . "Atlas of the Schumann-Runge Absorption Bands of O_2 in the Wavelength Region 175-205 nm." *Journal of Physical Chemistry Reference Data* 13(1985):207.
- Zheng, X. W.; Ho, P. T. P.; Reid, M. J.; and Schneps, M. H. "Molecular Clouds Associated with Compact HII Regions II. The Rapidly Rotating Condensation Associated with ON1." *Astrophysical Journal* 293(1985):522.

SMITHSONIAN ENVIRONMENTAL RESEARCH CENTER

- Chereskin, Barbara M.; Clement-Metral, Jenny D.; and Gantt, Elisabeth. "Characterization of a Purified Photosystem II-Phycobilisome Particle Preparation from *Porphyridium cruentum*." *Plant Physiologu* 77(1985):626-629.
- Cleland, Charles F. "Biochemistry of Induction - The Immediate Action of Light." In *Light and the Flowering Process*, pp. 123-136. Academic Press, 1984.
- Clement-Metral, Jenny D.; Gantt, Elisabeth; and Redlinger, Thomas. "A Photosystem II-Phycobilisome Preparation from the Red Alga, *Porphyridium cruentum*: Oxygen Evolution, Ultrastructure, and Polypeptide Resolution." *Archives of Biochemistry and Biophysics* 238(1985):10-17.
- Cotter, J. F. P.; Evenson, E. B.; Sirkin, L.; and Stuckenrath, R. "The Interpretation of 'Bog-Bottom' Radiocarbon Dates in Glacial Chronologies." In *Correlation of Quaternary Chronologies*. ed. W. C. Jahaney, pp. 299-316. Teo Books, 1984.
- Deitzer, Gerald F. "Photoperiodic Induction in Long-Day Plants." In *Light and the Flowering Process*, Chapt. 4, pp. 51-63. Academic Press, 1984.
- Dennison, David S., and Shropshire, W., Jr. "The Gravireceptor of *Phycomuces*: Its Development Following Gravity Exposure." *Journal of General Physiologu* 84(1984):845-859.
- Drake, Bert G. "Light Response Characteristics of Net CO₂ Exchange in Brackish Wetland Plant Communities." *Oecologia* 63(1984):263-270.
- Fujioka, S.; Yamaguchi, I.; Murofushi, N.; Takahashi, N.; Kaihara, S.; Takahashi, A.; and Cleland, C. F. 1985. "The Role of Benzoic Acid and Plant Hormones in Flowering of *Lemna gibba* G3." *Plant and Cell Physiologu* 26(1985):655-659.
- Goldberg, Bernard; Klein, William H.; Correll, David L.; and Pierce, J. W. "Instrumentation for Performing Spectral Measurements in a Marine Environment." *Marine Technology Society Journal* 18(1985):1-6.
- Harding, R. W.; Philip, D. Q.; Drozdowicz, B. Z.; and Williams, N. P. "A *Neurospora crassa* Mutant Which Overaccumulates Carotenoid Pigments." *Neurospora Newsletter* 31(1984):23-25.
- Hines, A. H., and Comtois, K. L. "Vertical Distribution of Infauna in Sediments of a Subestuary of Central Chesapeake Bay." *Estuaries* 8(1985): 251-261.
- Hines, A. H.; Osgood, K. E.; and Miklas, J. J. "Semilunar Reproductive Cycles in *Fundulus heteroclitus* (Pisces; Cyprino dontidae) in an Area Without Lunar Tidal Cycles." *Fishery Bulletin* 83(1985):201-206.
- Holliday, Vance T.; Johnson, Eileen; Haas, Herbert; and Stuckenrath, Robert. "Radiocarbon Ages from the Lubbock Lake Site, 1950-1980: Framework for Cultural and Ecological Change on the Southern High Plains." *Journal of the Plains Anthropologu Society* 28(1983):165-182.
- Holmes, M. G.; Klein, W. H.; and Sager, J. C. "Photons, Flux and Some Light on Philology." *HortScience* 20(1985):29-31.
- Longworth, J. W.; Jagger, J.; and Shropshire, W., Jr. (eds.) *Photobiologu* 1984. pp. 1-283. New York: Praeger Scientific Publishers, 1985.
- Lynch, J. F. "The Feeding Ecology of *Aneides flavipunctatus* and Sympatric Plethodontid Salamanders in Northern California." *Journal of Herpetologu* 19(1985):328-352.

- Meeson, B. W. and Faust, M. A. "Response of *Prorocentrum minimum* (*Dinophyceae*) to Different Spectral Qualities and Irradiances: Growth and Photosynthesis." In *Marine Biology of Polar Regions and Effects of Stress on Marine Organisms*, eds. J. S. Gray and M. E. Christiansen, pp. 445-461. John Wiley & Sons, 1985.
- Moore-Landecker, Elizabeth and Shropshire, W., Jr. "Effects of Ultraviolet A Radiation and Inhibitory Volatile Substances on the Discomycete, *Pyronema domesticum*." *Mycologia* 76(1984):820-829.
- Peterjohn, William T. and Correll, David L. "Nutrient Dynamics in an Agricultural Watershed: Observations on the Role of A Riparian Forest." *Ecology* 65(1984):1466-1475.
- Rublee, P. A.; Merkel, S. M.; Faust, M. A.; and Miklas, J. "Distribution and Activity of Bacteria in the Headwaters of the Rhode River Estuary, Maryland, U.S.A." *Microbial Ecology* 10(1984):243-255.
- Shropshire, W., Jr. "Signal Processing in the Transduction Mechanisms of Phototropism." In *Sensory Perception and Transduction in Aneural Organisms*, ed. Giuliano Colombetti and Pill-Soon Song, pp. 211-229, Plenum Publishing Corp., 1985.
- Stanley, Daniel Jean; Nelsen, Terry A.; and Stuckenrath, Robert. "Recent Sedimentation on the New Jersey Slope and Rise." *Science* 226(1984):125-133.
- Thompson, Laura K.; Ziv, Meira; and Deitzer, Gerald F. "Photocontrol of Peanut (*Arachis hypogaea* L.) Embryo and Ovule Development *in vitro*." *Plant Physiology* 78(1985):370-373.
- Whigham, D. F. "The Effect of Competition and Nutrient Availability on the Growth and Reproduction of *Ipomoea hederacea* in an Abandoned Old Field." *Journal of Ecology* 72(1984):721-730.
- _____. "Vegetation in Wetlands Receiving Sewage Effluent: The Importance of the Seed Bank." In *Ecological Considerations in Wetlands Treatment of Municipal Wastewater*, eds. P. J. Godfrey, E. R. Kaynor, S. Pelczarski, and J. Benforado, pp. 231-240. New York: Van Nostrand Reinhold, 1985.
- Zeiger, Eduardo; Grivet, C.; Assmann, Sarah M.; Deitzer, Gerald F.; and Hannegan, M. W. "Stomatal Limitation to Carbon Gain in *Paphiopedilum* sp. (*Orchidaceae*) and Its Reversal by Blue Light." *Plant Physiology* 77(1985):456-460.

SMITHSONIAN OFFICE OF EDUCATIONAL RESEARCH

- Falk, J.H. "Defining Excellence in Informal Education." In *Focus on Excellence*, Vol. 2(3), ed. J.E. Penick, 1985.
- Falk, J.H.; Koran, J.J.; and Dierking, L.D. "The Things of Science: Assessing the Learning Potential of Science Museums." *Science Education* 69(3)(1985):75-89.
- Yager, R., and Falk, J.H. "Informal Science Education: A Critique." In *Focus on Excellence*, Vol. 2(3), ed. J.E. Penick, 1985.

SMITHSONIAN TROPICAL RESEARCH INSTITUTE

- Ackerman, James D. "Euglossine bees and their nectar hosts." In: The Botany and Natural History of Panama: La Botánica e Historia Natural de Panama, ed. William G. D'Arcy and Mireya D. Correa A., pp. 225-234. Saint Louis, Missouri: Missouri Botanical Garden, 1985.
- Ackerman, James D. and Montalvo, Arlee M. "Longevity of euglossine bees." Biotropica 17(1)(1985): 79-81.
- Altamar J., Aurora and García Vielka. Cria en el laboratorio, estudio de la ecología y del ciclo de vida del orden Ephemeroptera (Insecta) en el Río la Puente, Panamá. Thesis, Universidad de Panamá, 1985.
- Angehr, George, Coley, Phyllis and Worthington, Andrea. Gufa de los Arboles Comunes del Parque Nacional Soberanía, Panamá, ed. Smithsonian Tropical Research Institute and Dirección Nacional de Recursos Naturales Renovables. 71p, 1984.
- Armbruster, W. Scott and Herzig, Ann L. "Partitioning and sharing of pollinators by four sympatric species of Dalechampia (Euphorbiaceae) in Panama." Annals of the Missouri Botanical Garden 71(1)(1984): 1-16.
- Angermeier, Paul L. and Karr, James R. "Relationships between woody debris and fish habitat in a small warmwater stream." Transactions of the American Fisheries Society 113(4)(1984): 716-726.
- Augspurger, Carol K. "Flowering synchrony of neotropical plants." In: The Botany and Natural History of Panama: La Botánica e Historia Natural de Panama, ed. William G. D'Arcy and Mireya D. Correa A., pp. 235-244. Saint Louis, Missouri: Missouri Botanical Garden, 1985.
- "Light requirements of neotropical tree seedlings: a comparative study of growth and survival." Journal of Ecology, 72(3)(1984): 777-795.
- "Seedling survival of tropical tree species: interactions of dispersal distance, light-gaps, and pathogens." Ecology 65(6)(1984): 1705-1712.
- Becker, Peter and Wong, Marina. "Seed dispersal, seed predation, and juvenile mortality of Aglaia sp. (Meliaceae) in Lowland dipterocarp rainforest." Biotropica 17(3)(1985): 230-237.
- Bennett, Charles A. "The Panama land bridge: a brief review." In: The Botany and Natural History of Panama: La Botánica e Historia Natural de Panama, ed. William G. D'Arcy and Mireya D. Correa A., pp. 117-124. Saint Louis, Missouri: Missouri Botanical Garden, 1985.

- Blake, John G. and Karr, James R. "Species composition of bird communities and the conservation benefit of large vs. small forests." Biological Conservation 30(2)(1984): 173-187.
- Blomquist, Gary J., Roubik, David W. and Buchmann, Stephen L. "Wax chemistry of two stingless bees of the Trigonisca group (Apidae: Meliponinae)." Comparative Biochemistry and Physiology 82B(1)(1985): 137-142.
- Borgia, Gerald. "Bower quality, number of decorations and mating success of male satin bowerbirds (Ptilonorhynchus violaceus): an experimental analysis. Animal Behaviour 33(1983): 266-271.
- Brokaw, Nicholas V.L. "Gap-phase regeneration in a tropical forest." Ecology 66(3)(1985): 682-687.
- , "Treefalls, regrowth, and community structure in tropical forests." In: The Ecology of Natural Disturbance and Patch Dynamics, ed. S.T.A. Pickett and P.S. White, pp. 53-69. New York: Academic Press, 1985.
- Caicedo R., Ricardo E. Distribución y aspectos taxonómicos de los moluscos marinos del archipiélago de las Mulatas, San Blas (Kuna Yala). Thesis, Universidad de Panama, 1984.
- Caldwell, Roy L. "A test of individual recognition in the stomatopod Gonodactylus festae." Animal Behaviour 33(1)(1985): 101-106.
- Carlisle, Tamsie R. "Parental response to brood size in a cichlid fish." Animal Behaviour 33(1)(1985): 234-238.
- Chen Fong, Eugenio. Contribución a la evaluación poblacional de Cichla ocellaris Bloch y Schneider, 1801, en el Lago de las Cumbres, República de Panamá. Thesis, Universidad Autónoma de Guadalajara, 1985.
- Christenson, Terry E. "Behavior of colonial and solitary spiders of the theridiid species Anelosimus eximius." Animal Behaviour 32(3)(1984): 725-734.
- Christy, John H., and Salmon, Michael. "Ecology and evolution of mating systems of fiddler crabs' (genus Uca)." Biological Reviews, 59(4)(1984): 483-509.
- Coates, A.G. and Jackson, Jeremy B.C. "The morphological distinction between zooxanthellate corals from shallow water (100 m) reefs and non-zooxanthellate coral from deeper water (200 m)." Proceedings of the Fifth International Coral Reef Congress, Tahiti, 2(1985): 79.
- Connor, J.L. Seasonality and reproduction of algae on Galeta Reef. Ph.D. dissertation. Berkeley, California: University of California.

Cooke, Richard G. "Ancient painted pottery from Central Panama." Archaeology July/August (1985): 33-39.

----- "Archaeological research in Central and Eastern Panama: a review of some problems." In: The Archaeology of Lower Central America, ed. F.W. Lange and D. Stone, pp. 263-302. Albuquerque: University of New Mexico Press, 1984.

----- "Birds and men in Prehistoric Central Panama." In: Recent Developments in Isthmian Archaeology, Proceedings of the 44th International Congress of Americanists, ed. Frederick W. Lange, pp. 243-282, 1984.

----- "La arqueología prehistórica en Panamá: una introducción." Suplemento Educativo Cultural de La Prensa, Serie Nuestra Historia 12(1985): 1-19.

----- "La arqueología prehistórica de Panamá: II Parte. Una Síntesis cronológica." Suplemento Educativo Cultural de La Prensa, Serie Nuestra Historia 13(1985): 1-19.

Cooke, Richard G. and Bray, Warwick. "The goldwork of Panama: an iconographic and chronological perspective." In: The Art of Precolombian Gold: the Jan Mitchell Collection, ed. Julie Jones, pp. 35-45. London: Weidenfeld and Nicholson, 1985.

Cooke, Richard G. and Olson, Storrs L. "An archaeological record for the white-faced whistling-duck (Dendrocygna viduata) in Central Panama." The Condor 86(1984): 493-494.

Cooke, Richard G., Piperno, Dolores, Ranere, Anthony J., Clary, Karen, Hansell, Patricia, Olson, Storrs, Valerio L., Wilson and Weiland, Doris. "La influencia de las poblaciones humanas sobre los ambientes terrestres de Panamá entre el 10,000 A.C. y el 500 D.C." In: Agonia de la Naturaleza. Ensayos sobre el costo ambiental del desarrollo Panameño, ed. Stanley Heckadon Moreno and Jaime Espinosa González, pp. 3-25, Panamá: Instituto de Investigación Agropecuaria de Panamá and Smithsonian Tropical Research Institute, 1985.

Cooke, Richard G. and Ranere, Anthony J. "The "Proyecto Santa Maria": a multidisciplinary analysis of prehistoric adaptations to a tropical watershed Panama." In: Recent Developments in Isthmian Archaeology, Proceedings of the 44th International Congress of Americanists, ed. Frederick W. Lange, pp. 3-30, 1984.

Croat, Thomas B. "The large monocots of Panama." In: The Botany and Natural History of Panama: La Botanica e Historia Natural de Panama, ed. William G. D'Arcy and Mireya D. Correa A., pp. 5-12. Saint Louis, Missouri: Missouri Botanical Garden, 1985.

Cubit, John D. "Herbivory and the seasonal abundance of algae on a high intertidal rocky shore." Ecology 65(6)(1984): 1904-1917.

- . "Possible effects of recent changes in sea level on the biota of a Caribbean reef flat and predicted effects of rising sea level. In: Proceedings from the Fifth International Coral Reef Congress. Antenne du Musuem National d'Histoire Naturelle et de l'Ecole Pratique des Hautes Etudes en Polynesie Francaise. Tahiti, French Polynesia.
- Cubit, John D., Batista, Gloria, Roman, Argelis and Batista, Victoria. "El valor de los manglares y arrecifes en la costa de Colón." In: Agonía de la Naturaleza. Ensayos sobre el costo ambiental del desarrollo Panameño, ed. Stanley Heckadon Moreno and Jaime Espinosa González, pp. 183-199, Panamá: Instituto de Investigación Agropecuaria de Panamá and Smithsonian Tropical Research Institute, 1985.
- De Alba, Georgina and Rubinoff, Ira. "El valor de nuestros bosques." In: Agonía de la Naturaleza. Ensayos sobre el costo ambiental del desarrollo Panameño, ed. Stanley Heckadon Moreno and Jaime Espinosa González, pp. 201-214, Panamá: Instituto de Investigación Agropecuaria de Panamá and Smithsonian Tropical Research Institute, 1985.
- D'Croz, Luis. "Los manglares: su importancia para la zona costera tropical. In: Agonía de la Naturaleza. Ensayos sobre el costo ambiental del desarrollo Panameño, ed. Stanley Heckadon Moreno and Jaime Espinosa González, pp. 167-181, Panamá: Instituto de Investigación Agropecuaria de Panamá and Smithsonian Tropical Research Institute, 1985.
- De Steven, Diane and Putz, Francis E. "Impact of mammals on early recruitment of a tropical canopy tree, Dipteryx panamensis, in Panama. Oikos 43(1984): 207-216.
- Decae, Arthur E. "A theory of the origin of spiders and the primitive function of spider silk." Journal of Arachnology 12(1)(1984): 21-28.
- DeLong, Dwight M., and Wolda, Henk. "New Panamanian Gyponine leafhoppers (Homoptera: Cicadellidae) belonging to the genera Polana and Curtara." Uttar Pradesh Journal of Zoology 4(1)(1984): 22-30.
- . "New Panamanian Gyponine leafhoppers (Homoptera: Cicadellidae) belonging to the genera Hecalapona, Gypona and Gyponana." Uttar Pradesh Journal of Zoology 4(2)(1984): 135-144.
- DeLong, Dwight M., Wolda, Henk and Estribí, Miguel. "Some new species of Panama Xestocephalus (Homoptera: Xestocephalinae)." Uttar Pradesh Journal of Zoology 3(2)(1983): 73-80.
- Denny, Mark W. "Mechanical properties of pedal mucus and their consequences for gastropod structure and performance." American Zoologist 24(1)(1984): 23-36.
- Denny, Mark W., Daniel, Thomas L. and Koehl, M.A.R. "Mechanical limits to size in wave-swept organisms." Ecological Monographs 55(1)(1985): 69-102.

- Dressler, Robert L. "La delimitación de géneros en el complejo Epidendrum." Orquidea 9(2)(1984): 277-298. (Includes English version.)
- . "The orchid flora of Panama." In: The Botany and Natural History of Panama: La Botánica e Historia Natural de Panama, ed. William G. D'Arcy and Mireya D. Correa A., pp. 25-28. Saint Louis, Missouri: Missouri Botanical Garden, 1985.
- . "Palmorchis en Panamá: una nueva especie donde menos se le esperaba." Orquidea 9(2)(1984): 213-230. (Includes English version).
- Eberhard, William G. Sexual Selection and Animal Genitalia. Cambridge: Harvard University Press, 1985.
- Eberhard, William G. and Briceño, Daniel. "Behavior and ecology of four species of Modissimus and Blechoscelis (Araneae, Pholcidae)." Rev. Arachnol. 6(1985): 29-36.
- Fadlallah, Yusef H., Karlson, Ronald H. and Sebens, Kenneth P. "A comparative study of sexual reproduction in three species of Panamanian zoanthids (Coelenterata: Anthozoa)." Bulletin of Marine Science 35(1)(1984): 80-89.
- Fausch, Kurt D., Karr, James R. and Yant, Philip R. "Regional application of an index of biotic integrity based on stream-fish communities." Transactions of the American Fisheries Society 113(1)(1984): 39-55.
- Fisher, Eric A. "Egg trading in the chalk bass, Serranus tortugarum, a simultaneous hermaphrodite." Zeitschrift für Tierpsychologie 66(2)(1984): 143-151.
- Foster, Robin. "Plant seasonality in the forests of Panama." In: The Botany and Natural History of Panama: La Botánica e Historia Natural de Panamá, ed. William G. D'Arcy and Mireya D. Correa A., pp. 255-262. Saint Louis, Missouri: Missouri Botanical Garden, 1985.
- Garrity, Stephen D. and Levings, Sally C. "Aggregation in a tropical neritid." The Veliger 27(1)(1984): 1-6.
- Gilliam, Martha, Buchmann, Stephen L., Lorenz, Brenda J. and Roubik, David W. "Microbiology of the larval provisions of the stingless bee, Trigona hypogea, an obligate necropage." Biotropica 17(1)(1985): 28-31.
- Glanz, William E. "Food and habitat use by two sympatric Sciurus species in central Panama." Journal of Mammalogy 65(2)(1984): 342-347.
- Glynn, Peter W. "An amphinomid worm predator of the crown-of-thorns sea star and general predation on asteroids in eastern and western Pacific coral reefs." Bulletin of Marine Science, 35(1)(1984): 54-71.
- . "Widespread coral mortality and the 1982-83 El Niño warming event." Environmental Conservation 11(2)(1984): 133-146.

Glynn, Peter W., Howard, L.S., Corcoran, Eugene and Freay Ana D. "The occurrence and toxicity of herbicides in reef building corals." Marine Pollution Bulletin 15(10)(1984): 370-374.

Glynn, Peter W., Perez, Miguel and Gilchrist, Sandra L. "Lipid decline in stressed corals and their crustacean symbionts." Biological Bulletin 168(2)(1985): 276-284.

Gómez Q., Nelida E. Balance de Nitrógeno y Fósforo en un Manglar de la Costa de la Bahía de Panamá. Thesis, Universidad de Panamá, 1984.

Graham, Jeffrey B. "Seasonal and environmental effects on the blood hemoglobin concentrations of some Panamanian air-breathing fishes." Environmental Biology of Fishes 12(4)(1985): 291-301.

Graham, Jeffrey B., Jones, Clara B., and Rubinoff, Ira. "Behavioural, physiological, and ecological aspects of the amphibious life of the pearl blenny Entomacrodus nigricans Gill." Journal of Experimental Marine Biology and Ecology 89(1985): 255-268.

Greenberg, Russel and Gradwohl, Judy. "A comparative study of the social organization of antwrens on Barro Colorado Island, Panama." Ornithological Monographs 36(1985): 845-855.

Guerra, Urrutia, Marcos A. "El guardabosques y su función social." La Prensa June 16(1984): 3B

-----, "La ética ecológica. El conservacionismo ecológico no admite demagogias." Boletín Harpia May (1)(1984): 10.

Hagedorn, Mary and Carr, Catherine. "Single electrocytes produce a sexually dimorphic signal in South American electric fish, Hypopomus occidentalis (Gymnotiformes, Hypopomidae)." Journal of Comparative Physiology A 156(1985): 511-523.

Hagedorn, Mary and Heiligenberg, Walter. "Court and spark: electric signals in the courtship and mating of gymnotoid fish." Animal Behaviour 33(1)(1985): 254-265.

Hay, Mark E. "Predictable spatial escapes from herbivory: how do these affect the evolution of herbivore resistance in tropical marine communities?" Oecologia 64(3)(1984): 396-407.

Hay, Mark E. and Gaines, S.D. "Geographic differences in herbivore impact: do Pacific herbivores prevent Caribbean seaweeds from colonizing via the Panamá Canal?" Biotropica 16(1)(1984): 24-30.

Hay, Mark E. and Norris, James N. "Seasonal reproduction and abundance of six sympatric species of Gracilaria Grev. (Gracilariaceae: Rhodophyta) on a Caribbean subtidal sand plain." Hydrobiologia 116/117(1984): 63-72.

- Heckadon Moreno, Stanley. "La colonización campesina de bosques tropicales en Panamá." In: The Botany and Natural History of Panama: La Botánica e Historia Natural de Panamá, ed. William G. D'Arcy and Mireya D. Correa A., pp. 397-410. Saint Louis, Missouri: Missouri Botanical Garden, 1985.
- ". "La ganadería extensiva y la deforestación: los costos de una alternativa de desarrollo. In: Agonía de la Naturaleza. Ensayos sobre el costo ambiental del desarrollo Panameño, ed. Stanley Heckadon Moreno and Jaime Espinosa González, pp. 45-62, Panamá: Instituto de Investigación Agropecuaria de Panamá and Smithsonian Tropical Research Institute, 1985.
- ". "La urbanización y la basura en la ciudad de Panamá 1905-1985." In: Agonía de la Naturaleza. Ensayos sobre el costo ambiental del desarrollo panameño, ed. Stanley Heckadon Moreno and Jaime Espinosa González, pp. 299-317, Panamá: Instituto de Investigación Agropecuaria de Panamá and Smithsonian Tropical Research Institute, 1985.
- ". "Los panameños y los recursos naturales." Revista Panameña de la Construcción 1(4)(1984): 3-13.
- Heckadon Moreno, Stanley and González, Jaime Espinosa (eds.). Agonía de la Naturaleza. Ensayos sobre el costo ambiental del desarrollo panameño. Panamá: Instituto de Investigación Agropecuaria de Panamá and Smithsonian Tropical Research Institute, 1985.
- Hendler, Gordon. "Brittlestar color-change and phototaxis (Echinodermata: Ophiuroidea: Ophiocomidae)." Marine Ecology 5(4)(1984): 379-401.
- Herre, Edward Allen. "Sex ratio adjustment in fig wasps." Science 228(1985): 896-898.
- Him F., José J. Estudio de las Angiospermas del Valle de Hornito y los Cerros Fortuna y Pinola, Ubicados en el Proyecto Hidroeléctrico Fortuna. Thesis, Universidad de Panamá, 1984.
- Hodkinson, I.D. Taxonomic and ecological studies on the psyllids (Insecta: Homoptera: Psylloidea) of tropical rain forest in Panama. Progress Report to RENARE and STRI, 8p., 1985.
- Howden, H.F. and Gill, B. "Two new species of Neoathyreus Howden and Martínez from Costa Rica with distribution notes on other Athyreini from Mexico and Central America (Coleoptera: Geotrupinae)." The Canadian Entomologist 116(12)(1984): 1637-1641.
- Howe, Henry F. "Constraints on the evolution of mutualism." The American Naturalist 123(6)(1984): 764-777.
- ". "Gomphothere fruits: a critique. The American Naturalist 125(6) (1985): 853-865.
- ". "Implications of seed dispersal by animals for tropical reserve management." Biological Conservation 30(3)(1984): 261-281.

- Howe, Henry F., Schupp, Eugene W., and Westley, L.C. "Early consequences of seed dispersal for a Neotropical tree (Virola surinamensis). Ecology 66(3)(1985): 781-791.
- Hubbell, Stephen P. "Methodologies for the study of the origin and maintenance of tree diversity in tropical rainforest." In: The Significance of Species Diversity in tropical forest ecosystems. In: Biology International, ed. G.M. Hadley and T. Younes, pp. 8-12. IUBS Special Issue No. 6, 1984.
- Hubbell, Stephen P. and Foster, Robin B. "Biology, chance, and history and the structure of tropical rainforest tree communities." In: Community Ecology, eds. J. Diamond and T.J. Case, Chapter 19. New York: Harper and Row.
- "Canopy gaps and the dynamics of a neotropical forest." In: Plant Ecology, eds. M.J. Crawley, Chapter 3. Oxford, U.K.: Oxford University Press.
- Hubbell, Stephen P., Wiemer, David F. and Adejare, Adeboye. "An antifungal terpenoid defends a neotropical tree (Hymenaea) against attack by fungus-growing ants (Atta)." Oecologia 60(3)(1983): 321-327.
- Hughes, T.P. and Jackson, Jeremy B.C. "Population dynamics and life histories of foliaceous corals." Ecological Monographs 55(2)(1985): 141-166.
- Hughes, T.P., Keller, B.D., Jackson, Jeremy J.B.C. and Boyle, M.J. "Mass mortality of the echinoid Diadema antillarum Philippi in Jamaica." Bulletin of Marine Science 36(2)(1985): 377-384.
- Humes, Arthur G. "Hemicyclops columnaris sp.n. (Copepoda, Poecilostomatoida, Clausidiidae) associated with a coral in Panama (Pacific side)." Zoologica Scripta 13(1)(1984): 33-39.
- "Ostrincola and Pseudomycola (Crustacea: Copepoda: Poecilostomatoida) associated with marine bivalve mollusks on the Pacific coast of Panama." Proceedings of the Biological Society of Washington 97(3)(1984): 589-600.
- Ito, Yosiaki. "A comparison of frequency of intra-colony aggressive behaviours among five species of polistine wasps (Hymenoptera: Vespidae)." Zeitschrift für Tierpsychologie 68(2)(1985): 152-167.
- "Shifts of females between adjacent nests of Polistes versicolor (Hymenoptera: Vespidae) in Panama." Insectes Sociaux 31(1)(1984): 103-111.
- "Social behaviour and social structure of neotropical paper wasps Mischocyttarus argulatus Richards and M. basimacula (Cameron)." Journal of Ethology 2(1)(1984): 17-29.

- Jackson, Jeremy B. "Ecology of cryptic coral reef communities. III. Abundance and aggregation of encrusting organisms with particular reference to cheilostome Bryozoa." Journal of Experimental Marine Biology and Ecology, 75(1984): 37-57.
- Jackson, Jeremy B. and Hughes, Terence P. "Adaptive strategies of coral-reef invertebrates." American Scientist 73(3)(1985): 265-274.
- Jaramillo Adam, Fidel E. and Jaramillo Adam, Cesar A. Algunos aspectos sobre la sistemática, conducta, ecología y distribución de las "ranas de cristal", género Centrolenella (Amphibia, Anura, Centrolenidae), de Panama. Thesis, Universidad de Panama, 1984.
- Jaramillo de Ventocilla, Yira M. Ciclo de vida de Brassolis isthmia (Nymphalidae-Brassolidae Lepidoptera. Thesis, Universidad de Panamá, 1985.
- Johnson, Leslie K., Haynes, L.W., Carlson, M.A., Fortnum, H.A. and Gorgas, D.L. "Alarm substances of the stingless bee, Trigona silvestriana." Journal of Chemical Ecology 11(4)(1985): 409-416.
- Johnson, Leslie K. and Hubbell, Stephen P. "Male choice. Experimental demonstration in a brentid weevil." Behavioral Ecology and Sociobiology 1984(15)(1984): 183-188.
- ". "Nest tree selectivity and density of stingless bee colonies in a Panamanian forest." In: Tropical Rain-Forest: The Leeds Symposium, ed. A.C. Chadwick and S.L. Sutton, pp. 147-154. Leeds: Leeds Philos. and Lit. Society, 1984.
- Joly, Luz Graciela. "El uso del Piper auritum para alimentar y atrapar pescado por los Naturales de Río Indio, Panamá." In: The Botany and Natural History of Panama: La Botánica e Historia Natural de Panamá, ed. William G. D'Arcy and Mireya D. Correa A., pp. 369-378. Saint Louis, Missouri: Missouri Botanical Garden, 1985.
- Jopling, Carol F. "Art and ethnicity." Ethnos, 49(1/2)(1984): 98-118.
- Karr, James R. "Birds of Panama." In: The Botany and Natural History of Panama: La Botánica e Historia Natural de Panamá, ed. William G. D'Arcy and Mireya D. Correa A., pp. 77-94. Saint Louis, Missouri: Missouri Botanical Garden, 1985.
- ". "Costa Rican Natural History", ed. Daniel H. Janzen. (Book review). The Auk 101(3)(1984): 642-643.
- ". "Dictionary of the Environment", by Michael Allaby. (Book review). The Auk 102(1)(1985): 228-229.
- ". "Evaluation of an index of biotic integrity: temporal variability and regional application." Research Brief, U.S. Environmental Protection Agency, Corvallis, Oregon. EPA-600/D-84-053. 8p, 1984.

- , "Landscape Ecology: Theory and Application" by Zev Nveh and Arthur S. Lieberman. (Book review). Ecology 66(2)(1985): 641.
- , "Turnover rates in tropical forest bird communities." In: Research Reports 1975 Projects, National Geographic Society, pp. 421-425, 1983.
- Karr, James R. and Freemark, Kathryn E. "Habitat selection in tropical birds." BioScience 34(4)(1984): 256.
- , "Disturbance and vertebrates: an integrative perspective. In: The Ecology of Natural Disturbance and Patch Dynamics, ed. S.T.A. Pickett and P.S. White, pp. 153-168. New York: Academic Press, 1985.
- Karr, James R., Heidinger, R.C. and Helmer, E.H. "Sensitivity of the index of biotic to changes in chlorine and ammonia levels from wastewater treatment facilities." Journal Water Pollution Control Federation 57(9)(1985): 912-915.
- Karr, James R., Toth, Louis A. and Dudley, Daniel R. "Fish communities of Midwestern rivers: a history of degradation." BioScience 35(2)(1985): 90-95.
- Kilar, John A. "Interactions between the red algae Acanthophora specifera and the decorator crab Microphrys bicornutus. Ph.D. dissertation. Halifax, Nova Scotia, Canada: Dalhousie University.
- Kilar, John A., and Lou, R.M. "Ecological and behavioral studies of the decorator crab, Microphrys bicornutus Latreille (Decapoda: Brachyura): a test of optimal foraging theory." Journal of Experimental Marine Biology and Ecology 74(2)(1984): 157-167.
- Kimsey, Lynn Siri and Smith, David R. "Two new species, larval descriptions, and life history notes of some Panamanian sawflies (Hymenoptera: Argidae, Tenthredinidae)." Proceedings of the Entomological Society of Washington 87(1)(1985): 191-201.
- Knapp, Sandra and Mallet, James. "Two new species of Passiflora (Passifloraceae) from Panama, with comments on their natural history." Annals of the Missouri Botanical Garden 71(4)(1984): 1068-1074.
- Knowlton, Nancy. "The Explanation of Organic Diversity" by Mark Ridley. (Book review). Science 225(1984): 160-161.
- Knowlton, Nancy and Greenwell, Simon R. "Male sperm competition avoidance mechanisms: the influence of female interests." In: Sperm Competition and the Evolution of Animal Mating Systems ed. R.L. Smith, pp. 61-84. New York: Academic Press, 1984.
- LaBarbera, Michael. "Mechanisms of spatial competition of Discinisca strigata (Inarticulata: Brachiopoda) in the intertidal of Panama." Biological Bulletin 168(1)(1985): 91-105.

- Laguna, Jorge. "Caries-like infections in Loxorhynchus crispatus (Crustacea, Brachyura, Majidae)." Journal of Invertebrate Pathology 45(1985): 247-248.
- . Systematics, ecology and distribution of Barnacles (Cirripedia; Thoracica) of Panama. San Diego, University of California, 1985.
- Lasker, Howard R. "Asexual reproduction, fragmentation, and skeletal morphology of a plexaurid gorgonian." Marine Ecology - Progress Series 19(3)(1984): 261-268.
- . "Prey preferences and browsing pressure of the butterflyish Chaetodon capistratus on Caribbean gorgonians." Marine Ecology - Progress Series 21(3)(1985): 213-220.
- Leon C., Ameth S. de. Estudio Comparativo de dos Sotobosques en el Area de Gigante, Lago Gatún. Thesis, Universidad de Panamá, 1984.
- Lessios, Harilaos A. "Genetic consequences of mass mortality in the Caribbean sea urchin Diadema antillarum" (Abstract). Proceedings of the Fifth International Coral Reef Congress, Tahiti, 2(1985): 233.
- . "Lunar spawning cycles: an isolating mechanism in sea urchins separated by the Isthmus of Panama." (An abstract). Proceedings of the Benthic Ecology Meetings, p. 24, 1983.
- . "Possible prezygotic reproductive isolation in sea urchins separated by the Isthmus of Panama." Evolution 38(5)(1984): 1144-1148.
- . "Reproductive periodicity of nine Caribbean species of echinoids in Panama" (Abstract). Proceedings, 5th International Echinoderm Conference, 1984.
- Lessios, Harilaos A., Cubit, John D., Robertson, D. Ross, Shulman, M.J., Parker, M.R., Garrity, Stephen D. and Levings, Sally C. "Mass mortality of Diadema antillarum on the Caribbean coast of Panama." Coral Reefs 3(1984): 173-182.
- Lessios, Harilaos A., Robertson, D. Ross, and Cubit, John D. "Spread of Diadema mass mortality through the Caribbean." Science 226(4672)(1984): 335-337.
- Levings, Sally C. and Adams, Eldridge S. "Intra- and interspecific territoriality in Nasutitermes (Isoptera: Termitidae) in a Panamanian mangrove forest." Journal of Animal Ecology 53(3)(1984): 705-714.
- Levings, Sally C. and Garrity, Stephen D. "Grazing patterns in Siphonaria gigas (Mollusca, Pulmonata) on the rocky Pacific coast of Panama." Oecologia 64(2)(1984): 152-159.
- Levings, Sally C. and Windsor, Donald M. "Litter moisture content as a determinant of litter arthropod distribution and abundance during the dry season on Barro Colorado Island, Panama." Biotropica 16(2)(1984): 125-131.

- . "Litter arthropod populations in a tropical deciduous forest: relationships between years and arthropod groups." Journal of Animal Ecology 54(1985): 61-69.
- Linares, Olga F. "Cash crops and gender constructs: the Jola of Senegal." Ethnology 24(2)(1985): 83-93.
- . "Peoples and resources in the tropics." (Book review). Science 226(4677)(1984): 962-964.
- . "Prefacio" In: Los Ngawbere de la Peninsula Valiente, ed. INAC - Direccion Nacional de Patrimonio Historico, p.3. Panama: INAC, 1985.
- Lubchenco, Jane, Menge, Bruce A., Garrity, Stephen D., Lubchenco, Peggy R., Ashkenas, Linda R., Gaines, Steven D., Emlet, Richard, Lucas, John, and Strauss, Sharon. "Structure, persistence, and role of consumers in a tropical rocky intertidal community (Taboguilla Island, Bay of Panama)." Journal of Experimental Marine Biology and Ecology 78(1/2)(1984): 23-73.
- Lubin, Yael D. "Changes in the native fauna of the Galapagos Islands following invasion by the little red fire ant, Wasmannia auropunctata." Biological Journal of the Linnean Society 21(1/2)(1984): 229-242.
- McDade, Lucinda A. "Systematics and reproductive biology of the Central American species of the Aphelandra pulcherrima complex (Acanthaceae)." Annals of the Missouri Botanical Garden 71(1)(1984): 104-165.
- McDade, Lucinda A. and Davidar, Priya. "Determinants of fruit and seed set in Pavonia dasypetala (Malvaceae)." Oecologia 64(1)(1984): 61-67.
- McNab, Brian K. "Physiological convergence amongst ant-eating and termite-eating mammals." Journal of Zoology 203(4)(1984): 485.
- Martin, Thomas E. "Resource selection by tropical frugivorous birds: integrating multiple interactions." Oecologia 66(1985): 563-573.
- Menge, Bruce A., Lubchenco, Jane and Ashkenas, Linda R. "Diversity, heterogeneity and consumer pressure in a tropical rocky intertidal community." Oecologia 65(3)(1985): 394-405.
- Meyer, J. Harlar, Zakon, Harold H., and Heiligenberg, Walter. "Steroid influences upon the electrosensory system of weakly electric fish: effects upon discharge frequencies with indirect effects upon electroreceptor tuning." Journal of Comparative Physiology 154A(1984): 625-631.
- Meylan, Anne, Meylan, Peter and Ruiz, Argelis. "Nesting of Demochelys coriacea in Caribbean Panama." Journal of Herpetology 19(2)(1985): 293-297.
- Mielke, von Wolfgang. "Einige Paramesochridae (Copepoda) von Panama." Spixiana 7(3)(1984): 217-243.

- Montgomery E. and Caldwell, Roy L. "Aggressive brood defense by females in the stomatopod Gonodactylus bredini." Behavioral Ecology and Sociobiology 14(1984): 247-251.
- Montgomery, G. Gene, Lee Mo., Claudette, Charity, Sandra, Riviero del Valle, Maria Beatriz, and Peralta, P.H. "Prevalencia del anticuerpo de encefalitis de St. Louis en algunas aves marinas de Panama." Revista Medica de Panama 8(3)(1984): 212-221.
- Montgomery, G. Gene and Martinez, Marta Lucia. "Timing of Brown Pelican nesting on Taboga island in relation to upwelling in the Bay of Panama." Colonial Waterbird 7(1984): 10-21.
- Moynihan, Martin. Communication and Non-Communication by Cephalopods. Bloomington: Indiana University Press, 1985.
- "Why are cephalopods deaf?" The American Naturalist 125(3)(1985): 465-469.
- Mulkey, Stephen S., Smith, Alan P. and Young, Truman P. "Predation by elephants on Senecio Keniodendron (Compositae) in the Alpine zone of Mount Kenya." Biotropica 16(3)(1984): 246-248.
- Nentwig, Wolfgang. "Architis nitidopilosa, a neotropical pisaurid with a permanent catching web (Araneae, Pisauridae)." Bulletin of the British Arachnological Society 6(7)(1985): 297-303.
- "Feeding ecology of the tropical spitting spider Syctodes longipes (Araneae, Scytodidae)." Oecologia 65(2)(1985): 284-288.
- "Social spiders catch larger prey: a study of Anelosimus eximius (Araneae: Theridiidae)." Behavioral Ecology and Sociobiology 17(1985): 79-85.
- Piperno, Dolores R. "A comparison and differentiation of phytoliths from maize and wild grasses: use of morphological criteria." American Antiquity 49(2)(1984): 361-383.
- "The Application of Phytolith Analysis to the Reconstruction of Plant Subsistence and Environments in Prehistoric Panama. Ph.D. dissertation, Temple University, 459p, 1983.
- "Phytolithic analysis of geological sediments from Panama." Antiquity 59(1985): 13-19.
- "Phytolith taphonomy and distributions in archeological sediments from Panama." Journal of Archaeological Science 12(1985): 247-267.
- Piperno, Dolores P. and Clary, Karen Husum. "Early plant use and cultivation in the Santa Maria Basin, Panama: data from phytoliths and pollen." In: Recent Developments in Isthmian Archaeology, Proceedings of the 44th International Congress of Americanists, ed. Frederick W. Lange, pp. 85-122, 1984.

- Platenkamp, Gerrit A.J. "Seasonal fluctuations in the flight activity of aquatic Heteroptera (Nempomorpha) on Barro Colorado Island, Panama." Studies on Neotropical Fauna and Environment 19(4)(1984): 201-208.
- Power, Mary E. "Grazing responses of tropical freshwater fishes to different scales of variation in their food." Environmental Biology of Fishes 9(2)(1983): 103-115.
- . "Habitat quality and the distribution of algae-grazing catfish in a Panamanian stream." Journal of Animal Ecology 53(2)(1984): 357-374.
- Putz, Francis E. "The natural history of lianas on Barro Colorado Island, Panama." Ecology 65(6)(1984): 1713-1724.
- Putz, Francis E., Coley, Phyllis D., Lu, Karen, Montalvo, Arlee M. and Aiello, Annette. "Uprooting and snapping of trees on Barro Colorado Island." In: The Botany and Natural History of Panama: La Botánica e Historia Natural de Panamá, ed. William G. D'Arcy and Mireya D. Correa A., pp. 263-266. Saint Louis, Missouri: Missouri Botanical Garden, 1985.
- Rand, A. Stanley. "Clutch size in Iguana iguana in Central Panama." In: Vertebrate Ecology and Systematics, ed. R.A. Seigel, L.E. Hunt, J. Knight, L. Malaret and N.L. Zuschlag, pp. 115-122, 1984.
- Read, Robert G. "Interaction of man and the microclimate in a tropical forest of Panama." In: The Botany and Natural History of Panama: La Botánica e Historia Natural de Panamá, ed. William G. D'Arcy and Mireya D. Correa A., pp. 411-414. Saint Louis, Missouri: Missouri Botanical Garden, 1985.
- Richmond, Robert H. "An energetic approach relating fecundity, growth and reproduction in the reef coral Pocillopora damicornis." American Zoologist 24(3)(1984): 131.
- . "Reversible metamorphosis in coral planula larvae." Marine Ecology - Progress Series 22(1985): 181-185.
- Richmond, Robert H. and Jokiel, Paul L. "Lunar periodicity in larva release in the reef coral Pocillopora damicornis at Enewetak and Hawaii." Bulletin of Marine Science 34(2)(1984): 280-287.
- Richter, Wayne. "A structural approach to the function of buttresses of Quararibea asterolepis." Ecology 65(5)(1984): 1429-1435.
- Rodaniche, Arcadio F. "Iteroparity in the lesser Pacific striped octopus Octopus chierchiae (Jatta, 1889)." Bulletin of Marine Science 35(1)(1984): 99-104.
- Rodda, Gordon. "Movement of juvenile American crocodiles in Gatun Lake, Panama." Herpetologica 40(4)(1984): 444-451.
- Román, Argelis C. "El manglar: un ecosistema en peligro." La Prensa May 21(1985).

- . "Parque recreativo Natural Isla Margarita." Enciclopedia de la Cultura Panameña para Niños y Jóvenes, Suplemento Educativo Cultural La Prensa, 48(1985): 19.
- . "Salvemos nuestros patrimonios nacionales y naturales." La Prensa May 13(1985): 4B.
- Roubik, David W. and Aquilera Peralta, Francisco Javier. "Thermodynamics in nests of two Melipona species in Brasil." Acta Amazonia 13(2)(1983): 453-466.
- Roubik, David W. and Buchmann, Stephen L. "Nectar selection by Melipona and Apis mellifera (Hymenoptera: Apidae) and the ecology of nectar intake by bee colonies in a tropical forest." Oecologia 61(1984): 1-10.
- Roubik, David W., Holbrook, N. Michele and Parra V., German. "Roles of nectar robbers in reproduction of the tropical treelet Quassia amara (Simaroubaceae)." Oecologia 66(1985): 161-167.
- Roubik, David W. and Michener, Charles D. "Nesting biology of Crawfordapis in Panama (Hymenoptera, Colletidae)." Journal of the Kansas Entomological Society 57(4)(1984): 662-671.
- Roubik, David W. and Reyes, Francisco. "African honey bees have not brought acarine mite infestations to Panama." American Bee Journal 124(9)(1984): 665-667.
- Roubik, David W., Schmalzel, R.J. and Moreno, E. "Estudio apibotánico de Panamá: cosecha y fuentes de polen y néctar usados por Apis mellifera y sus patrones estacionales y anuales. [Apibotanical study of Panama: Harvest and sources of pollen and honey used by Am and their seasonal and annual characteristics.]" Report submitted to USAID, 64p.
- Ruiz, Argelis and Rand, Stanley. "Las iguanas y el hombre en Panamá." In: Agonía de la Naturaleza. Ensayos sobre el costo ambiental del desarrollo Panameño, ed. Stanley Heckadon Moreno and Jaime Espinosa González, pp. 243-249, Panamá: Instituto de Investigación Agropecuaria de Panamá and Smithsonian Tropical Research Institute, 1985.
- Ryan, Michael J. The Túngara Frog. A Study in Sexual Selection and Communication. Chicago: The University of Chicago Press, 1985.
- Schwartz, Joshua J. and Wells, Kentwood D. "Intra- and interspecific vocal behavior of the neotropical treefrog Hyla microcephala." Copeia 1985(1)(1985): 27-38.
- . "Vocal behavior of the neotropical treefrog Hyla phlepododes." Herpetologica 40(4)(1984): 452-463.
- Sexton, Owen. "Transport of deer by Choco." In: The Botany and Natural History of Panama: La Botánica e Historia Natural de Panamá, ed. William G. D'Arcy and Mireya D. Correa A., pp. 345-346. Saint Louis, Missouri: Missouri Botanical Garden, 1985.

- Shelley, Todd E. "Ecological comparisons of robber fly species (Diptera: Asilidae) coexisting in a neotropical forest." Oecologia 67(1)(1985): 57-70.
- Shulman, Myra J. "Resource limitation and recruitment patterns in a coral reef fish assemblage." Journal of Experimental Marine Biology and Ecology 74(1)(1984): 85-109.
- Silberglied, Robert E. "Visual communication and sexual selection among butterflies." In: The Biology of Butterflies, ed. Richard I. Vane-Wright and Phillip R. Ackery, pp. 207-223, London: Academic Press, 1984.
- Smith, Alan P. "Postdispersal parent-offspring conflict in plants: antecedent and hypothesis from the Andes." The American Naturalist 123(3)(1984): 354-370.
- Smith, Neal G. "Nesting associations." In: A Dictionary of Birds, ed. Bruce Campbell and Elizabeth Lack, pp. 389-391. The British Ornithologists' Union, 1985.
- , "Sharpbill." In: A Dictionary of Birds, ed. Bruce Campbell and Elizabeth Lack, p. 533. The British Ornithologists' Union, 1985.
- Sork, Victoria L. "Germination response in a large-seeded neotropical tree species, Gustavia superba (Lecythidaceae)." Biotropica 17(2)(1985): 130-136.
- Steger, Rick and Caldwell, Roy L. "Intraspecific deception by bluffing: a defense strategy of newly molted stomatopods (Arthropoda: Crustacea)." Science 221(1983): 558-560.
- Steiner, Kim E. "The role of nectar and oil in the pollination of Drymonia serrulata (Gesneriaceae) by Epicharis bees (Anthophoridae) in Panama." Biotropica 17(3): 217-229.
- Sugden, Andrew M. "Aerial walkways in rain forest canopies: construction and use in Panama, Papua New Guinea, and Sulawesi." In: The Botany and Natural History of Panama: La Botánica e Historia Natural de Panamá, ed. William G. D'Arcy and Mireya D. Correa A., pp. 207-219. Saint Louis, Missouri: Missouri Botanical Garden, 1985.
- Sullivan Caldwell, Gloria and Rubinooff, Roberta Wolff. "Avoidance of venomous sea snakes by naive herons and egrets." The Auk 100(1)(1983): 195-198.
- Suman, Daniel. "El oleoducto: efectos y peligros de su operación." In: Agonía de la Naturaleza. Ensayos sobre el costo ambiental del desarrollo Panameño, ed. Stanley Heckadon Moreno and Jaime Espinosa González, pp. 277-298, Panamá: Instituto de Investigación Agropecuaria de Panamá and Smithsonian Tropical Research Institute, 1985.

- Sussman, R.W. and Kinzey, W.G. "The ecological role of the Callitrichidae: a review." American Journal of Physical Anthropology 64(4)(1984): 419-449.
- Taylor, Phillip R. and Hay, Mark E. "Functional morphology of intertidal seaweeds: adaptive significance of aggregate vs. solitary forms." Marine Ecology-Progress Series 18(1984): 295-302.
- Telesca T., Antonio and Visuetti E., Ileana A. Estudio del crecimiento y la migración horizontal de Protothaca asperrima Sowerby, 1835 (Lamellibranchia: Veneridae) en la Bahía de Bique, Panamá. Thesis, Universidad de Panama, 1985.
- Thorne, Barbara L. "Las termitas neotropicales como colonizadoras de montículos creados por árboles caídos: informe preliminar." In: The Botany and Natural History of Panama: La Botanica e Historia Natural de Panama, ed. William G. D'Arcy and Mireya D. Correa A., pp. 111-113. Saint Louis, Missouri: Missouri Botanical Garden, 1985.
- . "Polygyny in the Neotropical termite Nasutitermes corniger: life history consequences of queen mutualism." Behavioral Ecology and Sociobiology 14(2)(1984): 117-136.
- Vásquez Montoya, R and Thomassin, B. "Contribución al conocimiento de los anélidos poliquetos de las praderas de Thalassia testudinum y Halodule sp. del sector de Punta Galeta (Panamá, Provincia de Colón)." Anales del Instituto de Ciencias del Mar y Limnología 20(1)(1985): 1-10.
- Ventocilla, Jorge. "El Monumento Natural Barro Colorado." Enciclopedia de la Cultura para Niños y Jóvenes, Suplemento Educativo Cultural de La Prensa, Panamá, 48(1985): 8-9.
- . "El "Refugio de Vida Silvestre" Islas Taboga y Urabá, un hogar seguro para los pelícanos." Enciclopedia de la Cultura para Niños y Jóvenes, Suplemento Educativo Cultural de La Prensa, Panamá, 48(1985): 17-18.
- . "La avifauna: riqueza natural de Panamá." Enciclopedia de la Cultura para Niños y Jóvenes, Suplemento Educativo Cultural de La Prensa, Panamá, 45(1985): 2-6.
- . "La iguana: un recurso natural renovable." Suplemento El Istmo Abril 1(1984): 1, 24, 23.
- Ventocilla, Jorge and González, Alvaro. "Los pelícanos de Taboga." In: Agonía de la Naturaleza. Ensayos sobre el costo ambiental del desarrollo Panameño, ed. Stanley Heckadon Moreno and Jaime Espinosa González, pp. 251-256, Panamá: Instituto de Investigación Agropecuaria de Panamá and Smithsonian Tropical Research Institute, 1985.
- Weinberg, James R. "Interactions between functional groups in soft-substrata: do species differences matter?" Journal of Experimental Marine Biology and Ecology 80(1)(1984): 11-28.

- Wells, Kentwood D. and Schwartz, Joshua J. "Vocal communication in a neotropical treefrog, Hyla ebraccata: advertisement calls." Animal Behaviour 32(2)(1984): 405-420.
- Werner, Dagmar. "Research on management of an endangered species in Panama: the green iguana." Biological Conservation Newsletter 21(1984): 1-2.
- West-Eberhard, Mary Jane. "Sexual selection, competitive communication, and species-specific signals in insects." In: Insect Communication, ed. Trevor Lewis. Proceedings of the 12th Symposium of the Royal Entomological Society of London, pp. 283-324. London: Academic Press, 1984.
- Wheeler, Diana E. "Behavior of the ant, Procrystocerus scabriusculus (Hymenoptera: Formicidae), with comparisons to other cephalotines." Psyche 91(3-4)(1984): 171-192.
- Willis, Edwin O. "Anis (Aves, Cuculidae) as army ant followers." Revista Brasileira de Biologia 43(1)(1983): 33-44.
- "Longevities of some Panamanian forest birds, with note of low survivorship in old spotted antbirds (Hylophylax naevioides)." Journal of Field Ornithology 54(4)(1983): 413-414.
- "Playa cuckoos (Aves, Cuculidae) as army ant followers." Revista Brasileira de Biologia 43(1)(1983): 29-32.
- "Toucans (Ramphastidae) and hornbills (Bucerotidae) as ant followers." Le Gerfaut 73(1983): 239-242.
- "Touracos (Musophagidae), woodpeckers (Picidae), and ovenbirds (Furnariidae) as indirect ant followers." Ciencia e Cultura 35(6)(1983): 804-807.
- "Trans-Andean Xiphorhynchus (Aves, Dendrocolaptidae) as army ant followers." Revista Brasileira de Biologia 43(2)(1983): 125-131.
- Windsor, Donald M. and Rand, Stanley. "Cambios climáticos en los registros de lluvias en Panamá y Costa Rica." In: Agonía de la Naturaleza. Ensayos sobre el costo ambiental del desarrollo Panameño, ed. Stanley Heckadon Moreno and Jaime Espinosa González, pp. 147-164, Panamá: Instituto de Investigación Agropecuaria de Panamá and Smithsonian Tropical Research Institute, 1985.
- Winston, Judith E. and Jackson, Jeremy B.C. "Biomass accumulation and community development in cryptic coral reef environments." Proceedings of the Fifth International Coral Reef Congress, Tahiti, 2(1985): 408.
- "Ecology of cryptic coral reef communities. IV. Community development and life histories of encrusting cheilostome Bryozoa." Journal of Experimental Marine Biology and Ecology 76(1984): 1-21.

- Wittman, D. "Aerial defense of the nest by workers of the stingless bee Trigona (Tetragonisca) angustula (Latreille) (Hymenoptera: Apidae)." Behavioral Ecology and Sociobiology 16(2)(1985): 111-114.
- Wolda, Henk. "Diversidad de la entomofauna y como medirla." Informe Final IX CLAZ Perú, October, pp. 181-186, 1984.
- . "Diversity and seasonality of Panamanian cicadas." Mitteilungender Schweizerischen Entomologischen Gesellschaft 57(1984): 451.
- . "Variación estacional en la abundancia de la plaga del maíz Pergrius maidis (Ashmead) (Homoptera, Delphacidae) en Panama." Revista Colombiana de Entomología 8(1984): 35-39.
- Wolda, Henk and Broadhead, E. "Seasonality of Psocoptera in two tropical forests of Panama." Journal of Animal Ecology 54(1985): 519-530.
- Wong, Marina. "Behavioral indication of an African origin for the Malaysian Honeyguide Indicator archipelagicus." Bulletin of the British Ornithologists' Club 104(2)(1984): 57-60.
- . "The birds of China, by R. Meyer de Schauensee." (Book review). The Auk 102(2)(1985): 431-432.
- . "Fauna Sinica, Series Vertebrata. Aves 2: Anseriformes, by Z.X. Zheng and others." (Book review). The Auk 101(1)(1984): 215-217.
- . "Les oiseaux de Chine, de Mongolie et de Corée; Passereaux, by R.D. Etchecopar and F. Hue." (Book review). The Auk 101(1)(1984): 210-212.
- . "Understory birds as indicators of regeneration in a patch of selectively logged West Malaysian Rainforest." In: Conservation of Tropical Forest Birds, eds. A.W. Diamond and T.E. Lovejoy, ICBP Technical Publication 4(1985): 249-263.
- Wright, S. Joseph. "How isolation affects rates of turnover of species on islands." Oikos 44(1985): 331-340.
- Wright, S. Joseph, Faaborg, John and Campbell, Claudia J. "Birds from tightly structured communities in the Pearl Archipelago, Panama." Ornithological Monographs 36(1985): 798-812.
- Yant, Philip R., Karr, James R. and Angermeier, Paul L. "Stochasticity in fish communities: an alternative interpretation." American Naturalist 124(1)(1984): 573-582.
- Young, Orrey P. "Perching of neotropical dung beetles on leaf surfaces: an example of behavioral thermoregulation." Biotropica 16(4)(1984): 324-327.
- Zucker, Naida. "Delayed courtship in the fiddler crab Uca musica terpsichores." Animal Behaviour 32(3)(1984): 735-742.

ARCHIVES OF AMERICAN ART

Brown, Robert F. "Waldo Observed." In Waldo Peirce, A New Assessment. Orono, Maine: University of Maine, 1984.

_____. "Regional Office Report - New England." Archives of American Art Journal, 24(1-4).

Karlstrom, Paul T. "Regional Office Report - West Coast." Archives of American Art Journal, 24(1-4).

_____. "Jackson Pollack and Louis Bunce." Archives of American Art Journal, 24(2).

Kendall, Sue Ann. "Regional Office Report - Midwest." Archives of American Art Journal, 24(1-4).

Kirwin, Liza. "Regional Office Report - Mid-Atlantic." Archives of American Art Journal, 24(1-4).

Levy, Sandra J. "Regional Office Report - Texas Project." Archives of American Art Journal, 24(1-4).

McCoy, Garnett. "Editorial Note." Archives of American Art Journal, 24(1-4).

McNaught, William. "Regional Office Report - New York." Archives of American Art Journal, 24(1-4).

Paul, Stella. "Regional Office Report - Southern California." Archives of American Art Journal, 24(2-4).

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FREER GALLERY OF ART and the
ARTHUR M. SACKLER GALLERY

- Beach, Milo C. "Mughal Tents." Orientations, vol. 16, no. 1 (January 1985): 32-43.
- _____. The Art of India and Pakistan. Durham, N. C., Duke University Institute of Arts, 1985.
- Chase, W. Thomas, III, with Nicolas F. Veloz. "Some Considerations in Surface Treatment of Outdoor Metal Sculptures." The American Institute for Conservation of Historic and Artistic Works Preprints, Thirteenth Annual Meeting, Washington, D. C., 22-26 May 1985: 23-35.
- Cort, Louise A. "Ceramics and the Tea Ceremony." Apollo, vol. CXXI, no. 276 (February 1985): 120-123.
- _____. "Temple Potters of Puri." res. 7/8 (Spring/Autumn 1984): 33-43.
- Fu, Shen C. Y. "Han-shih t'ieh, The Best Calligraphic Work under Heaven by the Sung Master Su Shih (1036-1101)." (In Chinese) The National Palace Museum Monthly of Chinese Art, no. 19 (October 1984): 76-85.
- _____. A Period Division and the Influence of Yen Chen-ch'ing's Calligraphy. (In Chinese with a summary in English). Taipei, 1984.
- _____. "The Influence of the T'ang Master Yen Chen-ch'ing on the Calligraphy of the Ming Master Tung Ch'ü-ch'ang (1555-1636)." (In Chinese) The National Palace Museum Monthly of Chinese Art, no. 21 (December 1984): 96-103.
- _____. "The Genuine and Forged Calligraphic Works of Po Ch'ü-chih (772-846) and Chang Chi-chih (1186-1266)." (In Chinese). The National Palace Museum Monthly of Chinese Art, no. 26 (May 1985): 118-125.
- _____. "Reproduction and Forgery in Chinese Calligraphy." (In Chinese) Shufa yen chiu (Studies in Calligraphy), Shanghai, vol. 18 (December 1984): 93-115.
- Jett, Paul, with Shelley Sturman and Terry Drayman Weissen. "A Study of the Egyptian Bronze Falcon Figures in the Walters Art Gallery." Studies in Conservation, vol. 30, no. 3, London. (Scheduled for publication August 1985).
- Lowry, Glenn D. Fatehpur-Sikri: A Sourcebook, ed. with Michael Brand. Cambridge: Aga Khan Program for Islamic Architecture at Harvard University and Massachusetts Institute of Technology, 1985.
- Lowry, Glenn D. With Michael Brand. Akbar's India: Art from the Mughal City of Victory. New York: The Asia Society, 1985.
- _____. Review/ "l'art Islamique, by M. S. Simpson." MESA Bulletin, vol. 18, no. 2 (December 1984): 253-254.
- _____. Review/ "Die Paithan-Malerie, by A. L. Dallapiccola." Indo-Iranian Journal. (December 1984).
- Winter, John with Elisabeth West FitzHugh. "Some Technical Notes on Whistler's 'Peacock Room.'" Studies in Conservation, vol. 30, no. 3, London. (Scheduled for publication August 1985).
- _____. "Some Material Points in the Care of East Asian Paintings." International Journal of Museum Management and Curatorship, vol. 4, London. (Scheduled for publication September 1985).

COOPER-HEWITT MUSEUM

- Dee, Elaine Evans. Designed for Theater, Drawings and Prints from the Cooper-Hewitt Museum. Detroit: Detroit Institute of Arts, 1984.
- Dee, Elaine Evans and Joice, Gail. [Introduction] Old Master Prints from The Wallerstein Collection. Seattle: Seattle Art Museum, 1984.
- Martinez, Katharine. Timeless Sources: Rare Books in the Collection of the Cooper-Hewitt Museum. New York: Cooper-Hewitt Museum, 1985.
- McFadden, David Revere. "Documents of Design: Silver at Cooper-Hewitt Museum." (Part II of 2 parts.) The Magazine Silver, vol. 17, no. 2 (March-April, 1984), pp. 8-15.
- _____. "Documents of Design: The Silversmiths' Legacy," The Minneapolis Institute of Arts Antique Show 1984 Catalogue. Minneapolis: 1984, pp. 41-48.
- _____. "Cooper-Hewitt Museum, New York: Design for the Nation," Theta House Charity Antiques Show Catalogue. Houston: Texas, 1984, pp. 76-81.
- _____. "A Question of Choice," Sweden Now, vol. 18, no. 6 (1984), pp. 22-25.
- _____. "Design is Also a Verb," Form Function Finland, no. 2 (Spring 1985).
- _____. New American Glass: The State of the Art in the States, introductory essay for a catalogue of an exhibition at Kulturhuset, Stockholm, Sweden, 1985.
- _____. Juror's statement: "New Glass, 1985," Neues Glas, Germany.
- _____. General editor, Wine: Celebration and Ceremony, exhibition catalogue. "Celebration and Ceremony: Patterns of Ritual," from above. New York: Cooper-Hewitt Museum, 1985.
- _____. "Classics in Context," Finland Living Design. New York: Rizzoli International Publications, Inc., 1984, pp. 12-13.
- _____. "Tapio Wirkkala," gallery guide for exhibition. New York: IBM Gallery of Science and Art, 1985.
- Moss, Gillian. [Book review] "Newsletter," Lace Guild of New York, Feb. 1985.
- Taylor, Lisa. [Foreword] Timeless Sources: Rare Books in the Collection of the Cooper-Hewitt Museum. New York: Cooper-Hewitt Museum, 1985.
- _____. [Foreword] Wine: Celebration and Ceremony. New York: Cooper-Hewitt Museum, 1985.
- _____. [Foreword] European Illustration. London: European Illustration, 1984.
- _____. [Foreword] Theater Designs in the Collection of the Cooper-Hewitt Museum. New York: Cooper-Hewitt Museum, 1985.

Hirshhorn Museum and Sculpture Garden

- Demetrios, James T. (Foreword) Representation Abroad by Joe Shannon. Washington, D.C.: Smithsonian Institution Press for the Hirshhorn Museum and Sculpture Garden, 1985.
- Gettings, Frank. Artists and Models: Portraits from the Hirshhorn Museum and Sculpture Garden. Brochure. Washington, D.C.: Smithsonian Institution Traveling Exhibition Service, 1984.
- . Forum: Picasso's 'Portrait of Dora Maar'. Drawing. The International Review published by The Drawing Society. Vol. VII, No. 10, May/June, 1985, pg. 10.

- McCabe, Cynthia Jaffee. Immigrant Artists/American Experience. Exhibition catalogue. New York: Independent Curators Incorporated, 1985.
- . The Internationalization of American Art. Humanities 6 (February 1985), pp. 11-12.
- . (Preface) The Miami Generation: 9 Cuban American Artists. Philadelphia: Balch Institute for Ethnic Studies, 1985
- Millard, Charles. Jack Bush in the 1970s. Jack Bush, Toronto, 1984, pp. 48-59.
- . The Gardens of Kyoto in Summer. The Hudson Review, Summer, 1985, pp. 182-192.
- Rosenzweig, Phyllis. Some Notes on Richard Nonas's Work, Richard Nonas. Exhibition catalogue. Roslyn Harbor, New York: Nassau County Museum of Fine Art, 1985.
- Zilczer, Judith. Alfred Stieglitz and John Quinn: Allies in the American Avant-Garde. American Art Journal 17, no. 3 (Summer 1985): 20-33.

JOSEPH HENRY PAPERS

- Reingold, Nathan. "Metro-Goldwyn-Mayer Meets the Atom Bomb." In Expository Science: Forms and Functions of Popularisation, eds. T. Shinn and R. Whitley. Sociology of the Sciences 9 (1985): 229-245.
- Reingold, Nathan, and Bodansky, Joel N. "The Sciences, 1850-1900, a North Atlantic Perspective." Biological Bulletin 168 (suppl.) (1985):44-61.
- Reingold, Nathan; Rothenberg, Marc; Dorman, Kathleen W. and Theerman, Paul, eds. The Papers of Joseph Henry. Vol. 5, The Princeton Years, January 1841-December 1843. Washington, D.C.: Smithsonian Institution Press, 1985.
- Rothenberg, Marc. "History of Astronomy," Osiris 1 2nd Series (1985):117-131.
- . "America's Independence: Political and Scientific." Interdisciplinary Science Reviews 9 (1984):339-346.
- Theerman, Paul H. "Unaccustomed Role: The Scientist as Historical Biographer--Two Nineteenth-Century Portrayals of Newton." Biography, An Interdisciplinary Quarterly 8 (1985):145-162.

NATIONAL MUSEUM OF AFRICAN ART

- Bertin, Margaret. [General exhibition brochure] Igbo Arts: Community and Cosmos. Washington, D.C.: National Museum of African Art, 1985.
- Lifschitz, Edward and Alicia Taylor. Education Programs and Resources, 1985-1986. Washington, D.C.: National Museum of African Art, 1985.
- Puccinelli, Lydia. [Gallery leaflet] Funerary Commemorative Head. Washington, D.C.: National Museum of African Art, 1984.
- . [Gallery leaflet] Duala Ceremonial Racing Canoe Model. Washington, D.C.: National Museum of African Art, 1985.
- Saverino, Joan. [Teaching guide] Praise Poems: The Katherine White Collection. Washington, D.C.: National Museum of African Art, 1984.

NATIONAL MUSEUM OF AMERICAN ART

Bolton-Smith, Robin. Portrait Miniatures in the National Museum of American Art. Chicago and London: University of Chicago Press, 1984.

Foresta, Merry Amanda. [Checklist]. Homage to Franz Kline: Photographs by Aaron Siskind. Washington, D.C., 1985.

Hartigan, Lynda Roscoe. Sharing Traditions: Five Black Artists in Nineteenth-Century America. Washington, D.C.: Smithsonian Institution Press, 1985.

_____. [Gallery leaflet]. Looking at Sharing Traditions: Five Black Artists in Nineteenth-Century America. Washington, D.C.: Smithsonian Institution Press, 1985.

Herman, Lloyd E. [Introduction]. The Woven and Graphic Art of Anni Albers. Washington, D.C.: Smithsonian Institution Press, 1985.

_____. "The Art of the Turned Wood Bowl," The Art of Turned Wood Bowls. New York: E.P. Dutton, 1985.

_____. "The New Art Furniture: A Decade of Changes," Material Evidence: New Color Techniques in Handmade Furniture. Washington, D.C.: Smithsonian Institution Traveling Exhibition Service, 1985.

_____. [Juror's statement]. Wichita Decorative Arts National Exhibition. Wichita Art Association, September 1985.

Manthorne, Katherine. Creation and Renewal: Views of Cotopaxi by Frederic Edwin Church. Washington, D.C.: Smithsonian Institution Press, 1985 (English and Spanish editions).

Panzer, Nora. Art & Literature: Supplementary Reading for Exploration in American Art. Washington, D.C.: NMAA Publication, 1984.

- _____. [Editor]. Sharing Traditions: Five Black Artists in Nineteenth-Century America. Washington, D.C.: Privately published, 1985.
- _____. "6th Annual National Family Arts Competition 1985: Chesebrough-Pond's Celebrates the Family." Washington, D.C.: Privately published, 1985.
- Rand, Harry. The Martha Jackson Memorial Collection. Washington, D.C.: Smithsonian Institution Press, 1985.
- _____. [Introduction]. Emilio Cruz: Painting 1974-84. New York City: The Alternative Museum, 1985.
- _____. [Introduction]. John Hultberg. Clinton, New York: Hamilton College, 1985.
- _____. [Contributor]. Paul Manship: Changing Taste in America. St. Paul, Minnesota: Minnesota Museum of Art, 1985.
- _____. Stokley Webster: Paintings 1923-1984. Daytona Beach, Florida: Museum of Arts and Sciences, 1985.
- _____. [Review]. "Martin Kotler." Arts Magazine, February 1985.
- _____. [Review]. "Leon Berkowitz." Arts Magazine, June 1985.
- _____. [Review]. "Harris Rubin." Arts Magazine, October 1985.
- _____. [Suite of six poems]. 9th Decade (London, England), 1985.
- Renwick Gallery, [Checklist]. The Flexible Medium. Washington, D.C.: Smithsonian Institution Duplicating, 1984.
- Truettner, William H. "Dressing the Part: Thomas Eakins's Portrait of Frank Hamilton Cushing." The American Art Journal, XVII, 2 (Spring 1985).

NATIONAL MUSEUM OF AMERICAN HISTORY

Department of the History of Science and Technology

- Daniel, Pete. Breaking the Land: The Transformation of Cotton, Tobacco, and Rice Cultures since 1880. Champaign: University of Illinois Press, 1985.
- Davis, Audrey. Obituary of Walter Pagel, Isis 75 (1984): 363-365.
- . "Dentistry and its Image in the Nineteenth Century." Medical Collectors' Association Newsletter 2 (March 1985): 1-10.
- . "Society Business." Isis 76 (1985): 213-215.
- Ezell, Edward C. The Great Rifle Controversy: Search for the Ultimate Infantry Weapon from World War II Through Vietnam and Beyond. Harrisburg, Pa.: Stackpole Books, 1984.
- . Small Arms Today: Latest Reports on the World's Weapons and Ammunition. Harrisburg, Pa.: Stackpole Books, 1984.
- Green, Rayna, ed. That's What She Said: Contemporary Fiction and Poetry by Native American Women. Bloomington, Ind.: Indiana University Press, 1984.
- . "Love At First Byte: Word Play and Imagination in the New Machine Age." Cocona 5 (October 1985).
- . "Wasted Away Again in Margaritaville: The Cult of Nachismo and the New American Cuisine." The Digest (October 1985).
- Kidwell, Peggy Aldrich. "Women Astronomers in Britain, 1780-1930." Isis (September 1984).
- . "Elijah Hinsdale Burritt and 'The Geography of the Heavens.'" Sky and Telescope (January 1985).
- Kondratas, Ramunas. Biographical sketches of Samuel Clagett Busey, Charles R. Drew, George Martin Kober, George Lloyd Magruder, Frederick May, Thomas Miller, Mary Almera Parsons, Robert Rayburn, and George Tully Vaughan. In Dictionary of American Medical Biography, edited by Martin Kaufman et al. 2 vols. Westport, Conn.: Greenwood Press, 1984.
- . "The Community Pharmacy." New York: Ayerst Laboratories, 1985.
- . "Pharmaceutical Botany." New York: Ayerst Laboratories, 1985.
- . "Pills and Other Solid Dosage Forms." New York: Ayerst Laboratories, 1985.
- Langley, Harold. Biographical sketch of Admiral John Rogers. In Dictionary of American Military History. Westport, Conn.: Greenwood Press, 1985.
- Lubar, Steven. "Customize Your Wordstar!" Washington Area Rainbow User's Group Newsletter (February, 1984).
- . "Managerial Structure and Technological Style: The Textile Mills of Lowell, Massachusetts," Economic and Business History, 2d series, 13 (1984).
- . "A Career in History." In How to Get There From MIT. Cambridge, Mass.: MIT Press, 1984.
- Melosh, Barbara, and Christina Simmons. "Exhibiting Women's History." In Presenting the Past, edited by Susan Porter Benson, Stephen Brier, and Roy Rosenzweig. Philadelphia: Temple University Press, 1985.
- Melosh, Barbara, comp. American Nurses in Fiction. New York: Garland Publishing, Inc., 1984.
- . "'Every Woman Is a Nurse': Work and Gender in the Emergence of American Nursing." In Send Us a Lady Physician, edited by Maura Walsh. 1985.

- . "Museum Exhibits: Breaking the Science," Organization of American Historians Newsletter 13, no. 2 (May, 1985): 23-24.
- Merzbach, Uta C. "Idolatry, Automorphic Functions, and Conceptual Change. Reflections on the Historiography of Nineteenth-Century Mathematics." In Transformation and Tradition in the Sciences. New York: Cambridge University Press, 1984.
- Molella, Arthur P. "At the Edge of Science: Joseph Henry, Visionary Theorizers, and the Smithsonian." Annals of Science 11 (1984): 445-461.
- Molella, Arthur P., with Bernard Finn. "History of Electricity at the Smithsonian." IEEE Transactions in Education E-27 (1984): 218-225.
- Post, Robert C., and Otto Mayr, eds. Yankee Enterprise: The Rise of the American System of Manufactures. Japanese translation. Washington, D.C.: Smithsonian Institution Press, 1984.
- Post, Robert C. "Patent Models: Symbols for an Era." In American Enterprise: Nineteenth-Century Patent Models, edited by Robert C. Post. New York: Cooper-Hewitt Museum, 1984.
- . "From the Editor." Drag Racing 1 (November 1984): 4.
- . ed. Every Four Years '84: The American Presidency. Washington, D.C.: Smithsonian Institution Press, 1984.
- Sharrer, Terry. American Anthem: An Exhibit of Songs and Symbols of American History. Dallas: Trammel Crow Company, 1985.
- Staudenmaier, John M. "Foreword," Technology's Storytellers: Reweaving the Human Fabric. Cambridge, Mass.: MIT Press, 1985.
- Stephens, Carlene. "Before Standard Time: Distributing Time in 19th-Century America." Vistas in Astronomy 28 (July 1985): 113-118.
- . "Schreib- und Rechenmaschinensch a tze der Smithsonian Institution." Historische Burowelt 10 (July 1985): 7-10.
- Vogel, Robert M. "Industrial Structures." In Built in the U.S.A., American Buildings from Airports to Zoos, edited by Diane Maddox. Washington, D.C.: The Preservation Press, 1985.
- . "Cornwall Iron Furnace." American Society of Mechanical Engineers, 1985.
- . "Draughting the Steam Engine." Railroad History 152 (1985): 17-28.
- . "Casting About & Forging Ahead: The Preservation & Restoration of Historic Iron-Working Sites in the United States." In Ironworks and Iron Monuments: Study, Conservation, & Adaptive Use. Rome: ICCROM, 1985.
- Warner, Deborah J. Introduction to facsimile edition of Illustrated Descriptive Catalogue of Optical, Mathematical and Philosophical Instruments 1856 by Benjamin Pike, Jr., 1984.
- . "William J. Young: From Craft to Industry in a Skilled Trade." Pennsylvania History 52 (1985): 53-68.
- . "Star Charts: Their Lore and Meaning." In Celestial Images. Boston: Boston University Art Gallery, 1985.
- White, John H., Jr. "Another Early Snowplow." Railroad History 151 (Autumn 1984): 6-9.
- . "The Lion and the Dragon: The First Railway in China." National Railway Bulletin 50, no. 1 (1985): 34-41.
- . "More on Matthew." American Heritage (February/March 1985): 108-109.
- . "Profile: Why Write History." Railroad History 152 (Spring 1985): 6-12.
- . "The Steam Engine in Prints and Photographs." Railroad History 152 (Spring 1985): 29-41.

- ". "Almost on the Right Track: The Densmore Tank Car." Pennsylvania Heritage (Summer 1985): 12-17.
- Withuhn, William L. "The 1984 Railroad History Awards." Railroad History 151 (Autumn 1984): 6-9.
- Withuhn, William L., with Linn Moedinger. "The Pennsy Pulled a Fast One." Railfan & Railroad (September 1985): 36-42.
- York, Neil Langley "Foreword," Mechanical Metamorphosis: Technological Change in Revolutionary America. Westport, Conn.: Greenwood Press, 1985).

Department of Social and Cultural History

- Adrosko, Rita J. "American Coverlet Looms." In Made in New York State, Handwoven Coverlets 1820-1860. Watertown, N.Y.: The Jefferson County Historical Society, 1985.
- Harris, Elizabeth. "Wilkes' Die Entwicklung der eisernen Buchdruckerpresse" Fine Print (1985).
- Mayo, Edith, ed. American Material Culture: The Shape of Things Around Us. Bowling Green, Ohio: Bowling Green University Press, 1985.
- Melder, Keith. "A History of Partisan Press," Campaigns & Elections (Spring 1985).
- Melder, Keith. "The Birth of Modern Campaigning," Campaigns & Elections (Summer 1985).
- Roth, Rodris. "The New England, or 'Olde Tyme,' Kitchen Exhibits at Nineteenth-Century Fairs." In The Colonial Revival in America, edited by Alan Axelrod. New York: W.W. Norton and Company, 1985.
- Rubenstein, Harry. "Collecting for Tomorrow: Sweden's Contemporary Documentation Program." Museum News (August 1985): 55-60.
- Wright, Helena. "Ephemera at the Smithsonian Institution," AB Bookman's Weekly (March 4, 1985): 1571-1594.

Department of Public Programs

- Cherkasky, Shirley, comp. Paper Crafts for the Holidays. Washington, D.C.: National Museum of American History, 1984
- ". Holiday Recipes from Our Ethnic Heritage. Washington, D.C.: National Museum of American History, 1984.
- Kemp, Barbara, and Shirley Cherkasky. Eleanor Roosevelt's Washington. Washington, D.C.: National Museum of American History, 1984.

National Philatelic Collection

- Bruns, James H. "National Philatelic Collection Library Houses Outstanding Literature Selection." Linn's Stamp News (October 8, 1984).
- ". The First Highway Post Office. Mobile Post Office Society, 1985.
- ". "A Case of Something that was Overblown." The Transit Postmark Collector (July-August 1985).
- ". "Henry Jarrett's Annapolis Provisional Fakes." The United States Specialist 56, no. 1 (1985): 33-39.
- ". "Letters at War." The United States Specialist, 56, no. 4 (1985): 159-166.

- . "Letters at War." The United States Specialist 56, no. 5 (1985): 205-210.
- . "Remembering the Catcher Arm." The United States Specialist 56, no. 6 (1985): 281-82.
- . "Little Letters of World War II." Stamp Action 1 no. 1, (1985): 4, 9.
- . "It's All on the Stamp." The United States Specialist 56, no. 8 (1985): 360-65.
- . "Owney's Story." Stamp Action 1, no. 2 (1985): 4-5.

National Numismatic Collection

- Cancio, Leopoldo. "El Cid and his Money". Gaceta Numismatica 73 (1984): 19-27.
- . "Inflation in Portugal as evidenced through the centuries by its coinage." Gaceta Numismatica 77 (1985): 21-22.
- Clain-Stefanelli, Elvira, "Copper Coinages and the Monetary Economy of the Early United States." In America's Copper Coinage 1783-1857. New York: The American Numismatic Society, 1985.
- . Numismatic Bibliography. Munich: Battenberg Verlag, 1985.
- . "V.D. Brenner." Medallic Sculpture. (Spring 1985): 3-8.
- Gilliland, Cory. "Early American Copper Coinage in Relation to the Art and Taste of the Period." In America's Copper Coinage, 1783-1857. New York: The American Numismatic Society, 1985.
- . "85 FIDEM Congress." Coin World (July 10, 1985): 1-3.
- . "Medallic Treasures." The Robb Report 9, no. 3 (March 1985): 82-88.
- . "Medals Evoke Moods of Individual Artists." Coin World (July 3, 1985): 27-28.
- Hebert, Raymond J. "An Anonymous Isfahan Bronze Dated in the Monkey Year." Numismatics International Bulletin 18, no. 12 (December 1984): 375-378.
- . "I. Marian Shrine Devotional Medals: Our Lady of Lourdes." Numorum 4, no. 1 (Winter 1984): 3-8.
- . "St. George, the Dragon, and the Holy Family." Numismatics International Bulletin 19, no. 5 (May 1985): 137-139.
- . "A Devotional Medal Commemorating a Multiple Canonization in 1671." Numismatics International Bulletin 19, no. 1 (June 1985): 168-169.
- Vosloh, Lynn W., with Peter Huntoon. "A Unique Error and Great Rarity." Paper Money Magazine 24, no. 3 (May-June, 1985): 114-133.
- Vosloh, Lynn W. Modern Gold Coinage 1984. Washington, D.C.: The Gold Institute, 1985.
- . Modern Silver Coinage 1984. Washington, D.C.: The Gold Institute, 1985.

Archives Center

- Baty, Laurie A. Emily Hayden: Early Maryland Photographer. Towson, Md.: Goucher College, 1985.
- Fleckner, John A. Native American Archives: An Introduction. Chicago: Society of American Archives, 1984.

- Haberstitch, David A. "Sally Stein on FSA Color," "Reflections on Curatorship and Connoisseurship," and "Photographers of the Mid-Atlantic Region." Available Light (September 1985): 11-18.
- Harding, Robert S. Register of the George H. Clark Radioana Collection c. 1880-1950. Washington, D.C.: Smithsonian Institution, 1985.

Afro-American Communities Project

- Horton, James O. "Double Consciousness: Afro-American Identity in the Nineteenth Century." In Sharing Traditions: Five Black Artists in Nineteenth-Century America, edited by Lynda Roscoe Hartigan. Washington, D.C.: Smithsonian Institution Press, 1985.

National Portrait Gallery

- Barber, James G. U.S. Grant: The Man and the Image. The National Portrait Gallery in association with Southern Illinois University Press, Carbondale and Edwardsville, 1985.
- Carr, Carolyn K. "Double Take: Master Otis Barton and his Grandfather by William Merritt Chase", The Currier Gallery of Art Bulletin, 1984.
- Christman, Margaret C. S. "Costumes" (at Historic Deerfield), The Magazine Antiques 127 (3) (March 1985): 680-683.
- Cox, Beverly J. and Denna Jones Anderson. Miguel Covarrubias Caricatures. Washington, D.C.: Smithsonian Institution Press, 1984.
- Fabian, Monroe H. Joseph Wright, American Artist, 1756-1793. Washington, D.C.: Smithsonian Institution Press, 1985.
- Fern, Alan M. (Review) Bauhaus Photography, MIT Press, 1985, in The New York Times Book Review, September 22, 1985.
- _____. (Review) Herbert Bayer: The Complete Work by Arthur A. Cohen, MIT Press, 1984, in AIGA Journal of Graphic Design, Vol. 3, No. 3, Autumn 1985.
- _____. (Foreword) Joseph Wright, American Artist, 1756-1793 by Monroe H. Fabian, 1985.
- _____. (Foreword) Miguel Covarrubias Caricatures by Beverly J. Cox and Denna Jones Anderson, 1984.
- _____. New American Posters (exhibition brochure). Manchester, New Hampshire: Currier Gallery of Art, March 1985.
- _____. "Portraits: Imperial, Official, and Personal," essay in People And Power: Portraits from the Federal Village. New York: Harry N. Abrams, Inc., 1985.

- _____. (Foreword) A Truthful Likeness: Chester Harding and His Portraits. Washington, D.C.: National Portrait Gallery, 1985.
- _____. (Foreword) U.S. Grant: The Man and the Image by James G. Barber, 1985.
- _____. (Foreword) William Edward West (1788-1857): Kentucky Painter. Washington, D.C.: National Portrait Gallery, 1985.
- Hart, Sidney. "A Graphic Case of Transatlantic Republicanism", The Pennsylvania Magazine of History and Biography CIX (2) (April 1985): 203-213.
- Henderson, Amy. (Review) James Barbour, A Jeffersonian Republican by Charles D. Lowery, in History, Reviews of New Books, April 1985.
- Miller, Lillian B. "The Puritan Portrait: Its Function in Old and New England", Seventeenth-Century New England. Edited by David D. Hall and David Grayson Allen. The Colonial Society of Massachusetts. Charlottesville, Virginia: University of Virginia Press, 1985.
- _____. "Rembrandt Peale: The Career of An American Old Master", Rembrandt Peale 1778-1860. A Life in the Arts, catalogue for an exhibition at the Historical Society of Pennsylvania, February 22, 1985 to June 28, 1985. Philadelphia, Pennsylvania: Historical Society of Pennsylvania, 1985.
- Voss, Frederick S. Packaging Presidents: Campaign Memorabilia from Presidential Campaigns Past. Hudson River Museum, 1984.
- _____. (Review) The Lincoln Image: Abraham Lincoln and the Popular Print by Harold Holzer, et al., New York, 1984, in Winterthur Portfolio, Spring, 1985.
- Yellis, Ken. "Getting It Down on Paper." The Journal of Museum Education: Roundtable Reports, Vol. 10, No. 2, Spring, 1985.
- Yellis, Ken; and Education Department Staff. "Variations on a Theme: A Tribute to the American Musical Theater" (September 1984); "A Lone Wolf," "Women's Work," and "Eleanor" (October 1984); "Mencken in Winter: Reveries of an Iconoclast" (December 1984); "In Good Company" (January 1985); "Lou: The Remarkable Miss Alcott" (January 1985); "Not Above a Whisper" (January 1985); "Enter Frederick Douglass" (February 1985); "The Sage of Emporia" (March 1985); "A Bright and Steady Flame: The Brilliant Miss Katharine Cornell" (May 1985); "A Charles Ives Decoration Day" (May 1985); "Walt Whitman: Liberal and Lusty as Nature" (May 1985); "Journey Through the Mind...Edgar Allan Poe" (June 1985), Portraits in Motion Program Notes.

OFFICE OF AMERICAN STUDIES

Washburn, Wilcomb E. "The Shaping of an American Ideology," Commentary page, The Washington Times, September 11, 1984.

. "Indian Policy Since the 1880s," chapter in The Aggressions of Civilization: Federal Indian Policy Since the 1880s, edited by Sandra L. Cadwalader and Vine Deloria, Jr. (Philadelphia: Temple University Press, 1984), pp. 45-57.

. "Nach 50 Jahren: Ruckblick auf das Indian Reorganization Act (IRA)" (German translation of "A Fifty-Year Perspective on the Indian Reorganization Act") Amedian, News from Native America (Berichte aus dem indianischen Amerika), Vol. 12, No. 6/84, November 1984, pp. 7-11.

. "Pulling the Plug on the Sandinistas," Commentary page, The Washington Times, January 2, 1985.

. "Star Wars Scheme Protection Against U.S. Weakness as Well as Soviet Might," Columns page, The Miami News, January 24, 1985.

. "Ethical Perspectives in North American Ethnology," (in Social Contexts of American Ethnology, 1840-1984; 1984 Proceedings of the American Ethnological Society, June Helm, Editor and Symposium Organizer, and Stuart Plattner, Proceedings Editor (Washington: American Anthropological Association, 1985), pp. 50-64.

. "Indianer und Weisse: Die Geschichte ihrer Beziehung," chapter in Indianische Kunst im 20. Jahrhundert, edited by Gerhard Hoffmann (Munich: Prestel-Verlag, 1985), pp. 15-21.

. "The Southeast in the Age of Conflict and Revolution," in Alabama and the Borderlands: From Prehistory to Statehood, edited by R. Reid Badger and Lawrence A. Clayton (University, Alabama: University of Alabama Press, 1985), pp. 143-153.

. "Constructive Engagement and the U.S.S.R.," Commentary page, The Washington Times, August 23, 1985.

CONSERVATION ANALYTICAL LABORATORY

- Beaudry, M. P. "Ceramic Production and Distribution in the Southeastern Maya Periphery. Late Classic Painted Serving Vessels." BAR International Series 203. British Archaeological Reports 1. Oxford, 1984.
- Bishop, R. L.; Reents, D.J.; Harbottle, G.; Sayre, E. V.; and van Zelst, L. "The Area Groups: An Example of Style and Paste Compositional Covariation in Maya Pottery." In Fifth Palenque Roundtable, 1983, edited by Merle Greene Robertson and Virginia M. Fields. Pre-Columbian Art Institute, Hearld Printers, Monterey. pp. 79-84, 1985.
- Blackman, M. J. "The Provenience of Obsidian Artifacts from Late Chalcolithic Levels at Aphrodisias, Turkey." In Prehistoric Aphrodisias, ed. M. Joukowsky, (Archaeologia Transatlantica Vol. IV) Louvain-la-Neuve, Institut Superieur D'Archelogie et Histoire de L'Art, Brown University, 1985.
- Blackman, M. J. "Chemical Characterization of Sealing Clays from Fourth Millenium B.C. Sites in Iran. In The Transactions of the American Nuclear Society, vol. 49, pp. 168-169, La Grange, IL, 1985.
- Cheng, Y., and Olin, J. S. "The Neutron Activation Autoradiography Program at the Smithsonian Institution. In the Transactions of the American Nuclear Society, vol. 49, pp 169, La Grange, IL, 1985.
- Fraunfelter, G. H., and Bishop, R. L. "Invertebrate Megafauna of the Palenque, Chiappas, Mexico Area." Southern Illinois Studies 18, (1985).
- Garbin, M. L. "Leather Bibliography." in Fogle ed. Recent Advances in Leather Conservation. Foundation of the American Institute for Conservation of Historic and Artistic Works (FAIC), Washington, DC, 1985.
- Goodway, M. "Disintegration of Zinc Die-Castings." Journal of the Historical Metallurgy Society 19 no 1 (1985) pp. 37-38.
- Hamburg, D., Van Der Reyden, D., and Vitale, T. Paper Conservation Catalog. Sec. 22: Humidification, Book and Paper Group. American Institute of Conservation, Washington, DC, May, 1984.
- Hamburg, D., and Vitale, T. Paper Conservation Catalog. Sec: 28 Drying/Flattening, Book and Paper Group, American Institute of Conservation, Washington, DC, May, 1984.
- Henderson, J. "An Iron Age Glass Bead." in Britnall and Savory ed. Excavations at Gwerndale Cambrian Archaeological Society Monograph, no 2 (1984).
- Henderson, J., et al. "A Bronze Age Glass Bead from Wilsford, Wiltshire." Proceedings of the Prehistoric Society 52 (1984).
- Jornet, A., Blackman, M.J., and Olin, J. S. "XIIIth to XVIIIth Century Ceramics from the Paterna-Manises Area (Spain)." In Ceramics and Civilization, ed. David Kingery, American Ceramic Society, pp 235-255, 1985.
- Myers, J. E., and Blackman, M. J. "Conical Plates from Medieval Qsar es-Seghir." In the Proceedings of the Third International Congress on Medieval Ceramics. 1985.

- Padfield, T. "A Cooled Display Case." Museum 146 (1985) pp. 102-103.
- Reents, D. J. and Bishop, R. L. "History and Ritual Events on a Petexbatun Classic Maya Polychrome Vessel." In Fifth Palenque Roundtable, 1983, edited by Merle Green Robertson and Virginia M. Fields. Pre-Columbian Art Institute, Hearld Printers, Monterey, pp 57-63, 1985.
- Stark, B. L., Heller, L., Nelson, F. W., Bishop, R. L., Pearsall, D. M., Whitley, D. S., and Eells, H. "El Balsamo Residential Investigations = a Pilot Project and Research Issues. American Anthropologist, 1985.
- Von Endt, D. W., and Ortnier, D. J. "Experimental Effects of Bone Size and Temperature on Bone Diagenesis." Journal of Archaeological Science, 11 (1984) pp. 247-253.
- Wright, R. "Technology and Style in Ancient Ceramics." In. W. D. Kingery, Ceramics and Civilization. Pittsburgh, American Ceramic Society, pp. 5-25, 1985.
- Wright, R. "The Frontiers of Prehistoric Baluchistan and the Development of the Indus Civilization." In. K. M. Trinkaus, Ed. Polities and Partitions. Arizona State Press, 1985.

Papers Presented at Technical Meetings

- Ballard, M. W. "Weighted Silks Observed with SEM-EDS." Thirteenth Annual Meeting of the American Institute for Conservation, Washington, DC, May 1985.
- Beaudry, M. P. "Late Classic Painted Ceramics as Indicators of Social Class." Symposium on Copan Archaeology, at the Annual Meeting of the Society for American Archaeology, Denver, April 1985.
- Blackman, M. J. "Chemical Characterization of Sealing Clays from Fourth Millenium BC Sites in Iran." Symposium on Advances in Nuclear and Atomic Analytical Methods: Nuclear Archaeometry Applications, at the Annual Meeting of the American Nuclear Society, Boston, June 1985.
- Blackman, M. J. and Wright, R. P. "Technological and Stylistic Changes in Ceramics from the Fourth Millenium BC in Highland Iran." Seminar on Interactions among Technology, Style and Design in Ceramic History and Archaeology, at the Annual Meeting of the American Ceramic Society, Cincinnati, May 1985.
- Cheng, Y. T. and Olin, J. S. "The Neutron Activation Autoradiography Program at the Smithsonian Institution." Symposium on Advances in Nuclear and Atomic Analytical Methods: Nuclear Archaeometry Applications, at the Annual Meeting of the American Nuclear Society, Boston, June 1985.
- Goodway, M. "Iron." Seminar on Metals for Conservators, at the Twelfth Annual Meeting of the American Institute for Conservation, Washington, DC, May 1985.

- Grissom, C. A. "Zinc." Seminar on Metals for Conservators, at the Twelfth Annual Meeting of the American Institute for Conservation, Washington, DC, May 1985.
- Jornet, A., Blackman, M. J., and Olin, J. S. "Investigation on Post Medieval Glazed Ware from the Sevilla and Talavera Puente Areas (Spain)." Seminar on Interaction among Technology, Style and Design in Ceramic History and Archaeology, at the Annual Meeting of the American Ceramic Society, Cincinnati, May 1985.
- Myers, E. "Spanish State Building and Colonial Expansion: The Old World Background of New World Maiolica." Annual Meeting of the Society for Historic Archaeology, December 1984.
- van Zelst, L. "Gold and Silver." Seminar on Metals for Conservators, at the Thirteenth Annual Meeting of the American Institute for Conservation, Washington, DC, May 1985.
- Wright, R. P. "Technological Innovations and Stylistic Change." Seminar on Interactions among Technology, Style and Design in Ceramic History and Archaeology, at the Annual Meeting of the American Ceramic Society, Cincinnati, May 1985.
- Wright, R. P. "New Perspectives on Third Millennium Painted Gray Wares." Eight International Conference on South Asian Archaeology, Moesgard, Denmark, July 1985.

OFFICE OF HORTICULTURE

- Buckler, James R., and Meehan, Kathryn "American Horticulture." In The Art of Gardening--Maryland Landscapes and the American Garden Aesthetic 1730-1930, pp. 10-14. Historical Society of Talbot County, Easton, Maryland, 1984.

Office of Museum Programs

Abrams, Morris editor. A Reference Guide for Materials Concerning Native American Culture and History, Native American Museums Program/Office of Museum Programs, 1985.

American Indian Collections in European Museums and Archives, Native American Museums Program/Office of Museum Programs, 1985.

Degan, Paula editor. Proceedings for "Ways of Effectively Addressing Cultural Responsibilities" a National Workshop for Tribal Museum Directors and Administrators, Los Angeles, 1983. Native American Museums Program/Office of Museum Programs, 1985.

Dong, Margaret and Glaser, Jane R. editors. Museum Studies/International, Office of Museum Programs, 1984.

Mallet, Marcia editor. Studies by Museums for Program Planning and Exhibition Evaluation. Native American Museums Program/Office of Museum Programs, 1985.

Native American Museums Program Newsletter Issue 4, Summer 1985, Native American Museums Program/Office of Museum Programs.

Padwe, Alice ed. Older Adults and the Museum World: An Emerging Partnership. Office of Museum Programs.

Training Program/Office of Museum Programs. OMP Newsletter, Volume II, September, 1985.

Turgel, Marjorie ed. Let's Look at Washington - The Office of Museum Programs' Guide to the Nation's Capital, Office of Museum Programs.

SMITHSONIAN INSTITUTION ARCHIVES

Cox, William E., "Guide to the Papers of Charles P. Alexander, circa 1870-1982." Guides to Collections in the Smithsonian Archives, no. 3. Archives and Special Collections of the Smithsonian Institution. Washington, D.C.: Smithsonian Archives, 1985.

Deiss, William A., "The Making of a Naturalist: Spencer F. Baird, the early years." In From Linnaeus to Darwin: Commentaries on the History of Biology and Geology, Papers from the Fifth Easter Meeting of the Society for the History of Natural History, 28-31 March, 1983. London: Society for the History of Natural History, Special Publication 3 (1985):141-148.

Deiss, William A., "William Greenleaf Eliot: The Formative Years (1811-1834)," Introductory Essay in Earl K. Holt, III, William Greenleaf Eliot, Conservative Radical (St. Louis: First Unitarian Church of St. Louis, 1985).

Deiss, William A., "Audubon: Influences on an American Naturalist," In John J. Audubon, 1785-1851, exhibit catalogue, Chattahoochee Nature Center, Roswell, Georgia, 1984.

- Bedini, Silvio A. Clockwork Cosmos. Bernardo Facini and the Farnese Planisferologio. Vatican City: Biblioteca Apostolica Vaticana, 1985.
- _____. [Translation] Il Gioco del Domino. Milan: Jaca Book Editoriale, 1985. Translation into Italian of The Spotted Stones, 1978.
- _____. "Thomas Jefferson and American Vertebrate Paleontology." Derek de Solla Price (1922-1983), Eloge. Florence, Italy, 1984. Virginia Division of Mineral Resources Publication No. 61. Charlottesville, Va.: Department of Mines, Minerals, and Energy, Division of Mineral Resources, 1985.
- _____. [Review] A Catalogue of European Scientific Instruments in the Department of Medieval and Later Antiquities of the British Museum by F. A. B. Ward, in Technology and Culture 26 (3)(1985):636-37.
- _____. [Review] A Discourse on the Character and Services of Thomas Jefferson, More Especially as Promoter of Natural and Physical Sciences, in Technology and Culture 26 (3)(1985):637-38.
- _____. [Review] Il circolo matematico di Palermo by Aldo Brigaglia and Guido Masotto in Isis 75 (3)(1984):589-90.
- _____. [Review] The Georgia-South Carolina Boundary. A Problem in Historical Geography by Louis De Vorsey, Jr. in Annals of Science, 42 (2)(1985):175-76.
- Child, Margaret S. "The Future of Cooperative Preservation Microfilming." Library Resources and Technical Services 29 (1)(1985):94-101.
- _____. "New Techniques in Preservation." Humanities VI (4)(1985):31-2.
- Gwinn, Nancy E. "The Rise and Fall and Rise of Cooperative Projects." Library Resources and Technical Services 29 (1)(1985):80-86.
- Hyltoft, John & Joyce Dreyfuss. [Abstract] "Non-Adhesive Bindings -- Utopia or ?!" AIC Preprints (1985).
- Kenyon, Kay. "Zoo/Aquarium Libraries: A Survey," Special Libraries 75(1984):329-34. Reprinted in Animal Keepers' Forum 12 (1985):150-53 and 181-83.
- Maloy, Robert. "College and research libraries and IFLA." College & Research Libraries News 46 (7)(1985):353-54.
- Martinez, Katherine. [Exhibition Catalogue] Timeless Sources: Rare Books in the Collection of the Cooper-Hewitt Museum. New York: Cooper-Hewitt Museum, 1985.
- Matthews, Nancy L. William Sheppard, Cromwell's Law Reformer. Cambridge Studies in English Legal History. Cambridge, England: Cambridge University Press, 1984.
- Rahim, Enayetur. Smithsonian focus on India: a guide to the Institution's resources. Washington, D.C.: Smithsonian Institution Press, 1985.

Scott, Catherine D. & Lee Ash, eds. Aeronautics and Space Flight Collections. New York: Haworth Press, 1985. Also published as Special Collections 3 (nos. 1 and 2) (1985).

Stanley, Janet L. African Art: A Bibliographic Guide. Smithsonian Institution Libraries Research Guide No. 4. New York: Africana Publishing Co., 1985.

_____. "African Art and the AAT". Art Documentation (Tucson) 4 (3) (1985):103-105.

_____. "National Museum of African Art Branch Library, Smithsonian Institution Libraries, Washington, DC," African Research and Documentation (London) 35 (1984):38-39.

_____. "African Art Periodicals," Art Documentation (Tucson) 3 (1984):93-95.

_____. [Review] Africa Adorned, by Angela Fisher. Library Journal (Oct.1, 1984).

_____. [Review] African Libraries: Western Tradition and Colonial Brainwashing, in Africana Journal (New York) 13 (1984): 1-4. 1984.

_____. [Review] African Masterpieces From the Musée de l'Homme, by Susan Vogel and Francine N'Diaye. Library Journal (June 1, 1985).

_____. [Review] Broken Roots: a Biographical Narrative on the Shona People in Zimbabwe, by Paul Chidyausiku. African Book Publishing Record (Oxford) 11 (1)(1985).

_____. [Review] Kenya Magic, by John Schmid. African Book Publishing Record (Oxford) 10 (3)(1984).

_____. [Review] Libraries in West Africa: A Bibliography, by Helen Davies. Africana Journal 13 (1-4)(1984).

_____. [Review] Nigerian Periodicals Directory, by C. N. C. Asomugha. African Book Publishing Record (Oxford) 10 (3)(1984).

_____. [Review] A Short History of African Art, by Werner Gillon. Library Journal (May 1, 1985).

Wells, Ellen. Horsemanship: A Bibliography of Printed Materials from the Sixteenth Century through 1984. (Garland Reference Library of the Humanities, vol. 474). New York: Garland Publishing Inc., 1985.

_____. "Horsemanship: its literature and bibliography." Encyclopedia of Library and Information Science, 38 (1985):192-204.

_____. "Prints commemorating the Rome, 1656 plague epidemic." Annali dell'Istituto e Museo di Storia della Scienza di Firenze, X (1985):15-21.

_____. & Renata Rutledge. "Book Collecting and Care of Books." Revised edition. Washington, D.C.: Smithsonian Institution Libraries, 1985.

Publications of the Smithsonian Institution Traveling Exhibition Service

Books and Exhibition Catalogues

Chambers, Katherine, ed. Update, 1984-85. Washington, D.C.: Smithsonian Institution Traveling Exhibition Service, 1984.

Material Evidence: New Color Techniques in Handmade Furniture. Washington, D.C.: Smithsonian Institution Traveling Exhibition Service, 1985.

Three Centuries of German Painting and Drawing from the Collections of the Wallraf-Richartz Museum, Cologne. Washington, D.C.: Smithsonian Institution Traveling Exhibition Service, 1985.

Weiss, Harvey A. Ebla to Damascus: Art and Archaeology of Ancient Syria. Washington, D.C.: Smithsonian Institution Traveling Exhibition Service, 1985.

Booklets and Brochures

Chambers, Katherine, ed. Siteline, nos. 19 and 20. Washington, D.C.: Smithsonian Institution Traveling Exhibition Service, 1985.

Ebla to Damascus: Art and Archaeology of Ancient Syria. Washington, D.C.: Smithsonian Institution Traveling Exhibition Service, 1985.

Gettings, Frank. Artists and Models: Portraits from the Hirshhorn Museum and Sculpture Garden. Washington, D.C.: Smithsonian Institution Traveling Exhibition Service, 1984.

_____. Genre Scenes: Works on Paper from the Hirshhorn Museum and Sculpture Garden. Washington, D.C.: Smithsonian Institution Traveling Exhibition Service, 1984.

Goodman, Deborah Lerme. Eva Zeisel: Designer for Industry. Washington, D.C.: Smithsonian Institution Traveling Exhibition Service, 1984.

_____. Newcomb Pottery: An Enterprise for Southern Women, 1895-1940. Washington, D.C.: Smithsonian Institution Traveling Exhibition Service, 1984.

Proposing an Exhibition to SITES. Washington, D.C.: Smithsonian Institution Traveling Exhibition Service, 1985.

Queen of All Herbs, King of all Flowers: A Plant Lover's Guide to Peonies. Washington, D.C.: Smithsonian Institution Traveling Exhibition Service, 1985.

Posters

Drawn from the Sea: Art in the Service of Ichthyology

Ebla to Damascus: Art and Archaeology of Ancient Syria

Mouton Rothschild: Paintings for the Labels

Newcomb Pottery: An Enterprise for Southern Women, 1895-1940

Power and Gold: Jewelry from Indonesia, Malaysia and the Philippines

Sculpture: Exploring Three Dimensions

Three Centuries of German Painting and Drawing from the Collections of the Wallraf-Richartz Museum, Cologne

OFFICE OF FOLKLIFE PROGRAMS

Hunt, Marjorie. "Cultural Conservation." Festival of American Folklife Program Book, ed. Thomas Vennum, Jr., pp. 38-39. Washington, D.C.: Smithsonian Institution, 1985.

Kenoyer, Jonathan Mark. "South Asian Cooking." Festival of American Folklife Program Book, ed. Thomas Vennum, Jr., pp. 82-86. Washington, D.C.: Smithsonian Institution, 1985.

Kurin, Richard. "Morality, Personhood and the Exemplary Life: Popular Conceptions of Muslims in Paradise." Moral Conduct and Authority: The Place of Adab in South Asian Islam, ed. Barbara Metcalf, pp. 196-220. Berkeley: University of California Press, 1984.

_____. and Pria Devi. "Aditi--A Celebration of Life." Aditi: The Living Arts of India, ed. Patricia Gallagher, pp. 31-183. Washington, D.C.: Smithsonian Institution Press, 1985.

_____. "Aditi: A Celebration of Life." Festival of American Folklife Program Book, ed. Thomas Vennum, Jr., pp. 95-96. Washington, D.C.: Smithsonian Institution, 1985.

_____. "Doctor, Lawyer, Indian Chief." Anthropology 85/86, ed. Elvio Angelonia, pp. 12-17. Guilford: Dushkin Annual Editions. (Reprint, 1985)

_____. "Islamization in Pakistan: A View from the Countryside." Asian Survey 25, no. 9 (1985):852-62.

_____. "Mela: A Festival Fair of India." Festival of India, pp. 150-154. New York: Harry Abrams, Inc., 1985.

_____. "Mela! An Indian Fair." Festival of American Folklife Program Book, ed. Thomas Vennum, Jr., pp. 66-71. Washington, D.C.: Smithsonian Institution, 1985.

McCarl, Robert. The District of Columbia Fire Fighters' Project: A Case Study in Occupational Folklife. Smithsonian Folklife Studies Number 4. Washington, D.C.: Smithsonian Institution Press, 1985.

Vennum, Thomas, Jr. [Review] Traditional Ojibwa Religion, by Christopher Vecsey. American Indian Quarterly (Spring 1984):369-73.

_____. "The Ojibwe Begging Dance." Music and Context: Essays in Honor of John Ward, ed. Anne D. Shapiro, pp. 54-78. Cambridge, Massachusetts: Harvard University Music Department, 1985.

_____, ed. Festival of American Folklife Program Book. Washington, D.C.: Smithsonian Institution, 1985.

_____. [Review] Die Volksmusikinstrumente der Schweiz, by Brigitte Geiser-Bachmann. Ethnomusicology (Fall 1985):517-20.

Office of Telecommunications

Film and Video Productions. The listing which follows contains material based on research done by Smithsonian curators or other personnel:

"The Blue Planet." A 15-minute film. Compares and contrasts the Maine coast with a tropical coral reef. (NMNH)

"Coral Reefs and the Discovery of New Resources on a Blue Planet." (working title) A 28-minute film. A documentary on the complex ecosystems and food sources of a tropical reef.

"Here at the Smithsonian..." - 15 2-2 1/2-minute features.

The following is a complete listing of "Here at the Smithsonian..." features, distributed to stations during 1985, which contain material based on research done by Smithsonian curators or other personnel:

"Say It Ain't So, Wesley." Two curator-sleuths at the National Air and Space Museum have proved that the world's most famous aerial photographs--the fabled Cockburn-Lange collection from World War I--are fakes. (NASM)

"Black Artists in the 19th Century." To celebrate Black History Month, a look at five black artists who overcame the odds, achieving success in 19th century America. (NMAA)

"Mechanical Musical Marvels." They brought music to cafes, dance halls, and into the home long before the phonograph -- and now they play again. (NMAH)

"America's Castle." Tourists have often wondered why the "heart" of the Smithsonian is a medieval castle. A look behind the scenes at the history of this unique American building. (SI)

"Deep Sea Mysteries." A unique submersible now makes it possible for scientists to dive to observe the extraordinary creatures living deep in the waters of the Caribbean. (NMNH)

"The Smithsonian's Model Shop." Behind the scenes, skilled craftspeople create the models -- from airplanes to dinosaurs -- which enhance Smithsonian exhibitions.

"Keeping Orchids Alive." The National Orchid Collection boasts over 45,000 plants, many of them endangered and rescued from the world's vanishing rain forests. (OH/NMNH)

"Something To Hang The Paint On." Artist Jim Dine has become famous for his paintings of everyday things like robes, hearts, and tools. He comes to the Smithsonian for a major exhibition of his work. (HMSG)

"The World's Biggest Camera." Located on a mountain in southern Arizona, this camera takes snapshots of gamma rays in the distant universe. (SAO)

- "The Tale of The Kite." A brief history of mankind's first aircraft, as told by a Smithsonian historian who's been putting kites to some amazing uses for nearly eighty years. (NASM)
- "A Modern Noah's Ark." A visit to the Smithsonian's Conservation and Research Center in Front Royal, Virginia, a "country home" for some of the rare and endangered animals being cared for by the National Zoo. (NZP)
- "Restoring It Wright." The world's first airplane, the original 1903 Wright Brothers' Flyer, has just undergone a complete restoration for the first time since coming to the Smithsonian--and museum visitors were able to watch the whole process. (NASM)
- "Diplomats In Buckskins." In the 19th century, thousands of Indians came to the Nation's Capitol and were treated with all the ceremony of foreign diplomats. It's a little known but important chapter in the government's dealings with the Indians. (NMNH)
- "Folklife '85." The sights and sounds of the Festival of American Folklife, from marimba music of the Mayan Indians to New Orleans Dixieland. (OFP)
- "Advertising Yesterday and Today." The three million artifacts in the Smithsonian's Collection of Advertising History do more than "plug" products; they help document the "America" of their time. (NMAH)
- "Video Astronomy." A revolutionary new tool, developed at the Harvard-Smithsonian Center for Astrophysics, is providing highly detailed and colorful images of the universe, including Halley's Comet. (SAO)
- "A Woman Ahead Of Her Time." The story of Martha Jackson, a Manhattan gallery owner who gave many of the superstars of contemporary American art their first big chance. (NMAA)
- "The Old Country Post Office." For decades, in much of rural America, the post office was the most important link to the outside world. Recalling that time, we visit the one-room Headsville, West Virginia, post office and general store, now located in the Museum of American History. (NMAH)
- "Smithsonian Galaxy," 104 2 1/2-minute features.
- "Radio Smithsonian," 52 half-hour programs.
- The partial listing of Radio Smithsonian segments, which follows, contains material based on research done by Smithsonian curators or other personnel:
- "Apollo's Legacy." Moon rocks brought back to Earth by astronauts. (NASM) September 2, 1984.
- "The Curse that Wasn't." The Hope Diamond's legend and its true story. (NMNH) September 9, 1984.
- "Looking Forward in Retrospect." An exhibition called "Yesterday's Tomorrows" explores popular expectations about the future. (NMAH) September 16, 1984.

- "One Million Mosquitos." More than one million are in the Smithsonian's mosquito collection. (NMNH) September 23, 1984.
- "Thinking about Animals." People's attitudes toward animals. (NZP, SI) September 23, 1984.
- "The World's Biggest Tenderfoot." Little-known elephant facts and lore combined with preservation attempts for an endangered species. (NZP) September 30, 1984.
- "Political Spots." Brief history of campaign "spots" from the 30's through the 50's. (NMAH) November 4, 1984.
- "The Final Frontier." Speculation on living and working in outer space. (NASM) December 16, 1984.
- "Here Comes Halley's." Smithsonian astronomers preview 1985's big celestial event, the arrival of Halley's Comet. (NASM, SAO) December 16, 1984.
- "Hairstreaks and Skippers." Two entomologists report on the bizarre lifestyles of butterflies. (NMNH) December 30, 1984.
- "Seaweed Mystery." Seaweed grows 850 feet beneath the sea without sunlight. Scientists are trying to find out how. (NMNH) January 6, 1985.
- "Quetzalcoatlus Flies Again...Maybe." Quetzalcoatlus Northropi, better known as the Pterosaur, was the largest creature ever to fly. Experts try to build a working model. (NASM) January 13, 1985.
- "Say It Ain't So, Wesley." Wesley Archer published some of World War I's most famous aerial combat photos. Two curators say they're fakes and explain how and why Wesley did it. (NASM) January 13, 1985.
- "New at the Zoo." New director Dr. Michael Robinson looks at the changing roles of modern zoos. (NZP) January 20, 1985.
- "Insects in Peru, Part 2." Follow-up on the continuing canopy studies of biologist Terry Irwin, who at last count had upped the number of insect species in the rain forests to 30 million. (NMNH) January 20, 1985.
- "The Spider's Web." Jonathan Coddington provides more information on evolution derived from the lives and habits of arachnids. (NMNH) February 10, 1985.
- "Understanding Echinoderms." Found in marine habitats all over the world, it is no easy task to understand these sea urchins, starfish and their kin. (NMNH) February 10, 1985.
- "Happy Birthday, DC-3." The first commercially viable plane turns 50 this year but the credit should really go to its older brother, the DC-2. (NASM) February 17, 1985.
- "People in transition." Anthropologist Allison Brooks observes a major cultural change in !Kung San people of Africa's Kalahari Desert as they evolve from a hunter-gather society into an agricultural one. (NMNH) February 24, 1985.

- "Animals and Tools." New research reveals that animal tool use is far more widespread than suspected. (NZP) March 17, 1985.
- "Venezuela's Lost World." Cerro Neblina, a mountain rising out of a remote rain forest offers unique research opportunities. (NMNH) March 24, 1985.
- "Thomas Paine: A Hero Scorned." A chronicle of the career of an American patriot and revolutionary. (NPG) March 31, 1985.
- "Stamp Stories." Postal peculiarities recounted by the curator of the National Philatelic Collection. (NMA) March 31, 1985.
- "A Museum Milestone." Celebrating the 75th anniversary of the National Museum of Natural History. (NMNH) April 7, 1985.
- "Frontier Warfare." Historians, curators, and archivists trace the history of combat between Native Americans and settlers from 17th-century confrontations in Virginia to Custer's Last Stand. (NMNH/NMAH) April 28, 1985.
- "Mammals in the Spotlight." A new permanent hall reveals the origin and evolution of mammals, from 60 million years ago to the present day. (NMNH) July 7, 1985.
- "The Coast of Maine." A new living biosystem recreates the complex chains of life in the salt marches, mud flats and rocky shores of Maine's coast. (NMNH) July 7, 1985.
- "Before America." From the language of the Maya to the music of the Chippewa, a review of our current knowledge and speculation about America before the white man came. (SI, NASM, MNAH) July 14, 1985.
- "The First Secretary." Exploring the research and writings of Joseph Henry, the Smithsonian's first presiding officer. (JHP) July 12, 1985.
- "U.S. Grant--the Unknown Soldier." Portraits, photographs and personal memorabilia trace Grant's rise to fame as a Civil War general and President of the United States. (NPG) July 28, 1985.
- "American Gypsies." A portrait of the Rom, an American Gypsy group that has carved a niche in this country despite their illiteracy, lack of education, and harsh treatment from the rest of society. (NMAH) September 1, 1985.
- "IRAS the Magnificent." IRAS is the Infra-Red Astronomy Satellite which recently concluded its triumphant tour of space. (NASM) September 15, 1985.
- "Deep Sea Creatures." In the deep dark cold of the oceans, many a strange and fanciful being resides. (NMNH) September 29, 1985.

SMITHSONIAN INSTITUTION PRESS

Williams, Martin, "Honoring Bill Evans" (annotation to The Complete Riverside Bill Evans record album).

_____. "Just Asking." Jazz Times (September 1984).

_____. "Fictionalizing Tarzan." Tarzine (June 1985).

_____. "Celebrating the Word Saxophone Quartet." Jazz Times (August 1985).

_____. "Drug Abuse and the Comic Strip" (letter). The Comics Journal (June 1985).

_____. "Jazz: What Happened in Kansas City." American Music (Summer 1985).

_____. Jazz Heritage (Oxford). (September 1985).

SMITHSONIAN RESIDENT ASSOCIATE PROGRAM

Caraveli, Anna. Scattered in Foreign Lands: A Greek Village in Baltimore.

Exhibition Catalogue. Baltimore, Md.: The Baltimore Museum of Art, 1985.

-----"The Symbolic Village: Community Born in Performance." Journal of American Folklore, vol. 98, July-Sept., 1980.

Frye, Melinda Young. "Charles Wilcomb's Colonial Kitchens, 1895, 1906; 1910." In The Colonial Revival in America. New York: Norton/Winterthur, 1985.

The Smithsonian Associate, monthly 32- to 52-page newsletter, Janet W.

Solinger, publisher/executive editor, and Karen R. Sagstetter, editor.

Reading Is Fundamental, Inc.

RIF Newsletter. Published three times a year, the Newsletter reports on RIF activities nationwide. A technical assistance insert, addressing local projects' requests for information on how to motivate youngsters to read, is included in Newsletters sent to RIF projects. The Newsletter reaches 20,000 people throughout the United States and offshore territories.

Parents' Brochures. A series of four brochures on the topics "Choosing Good Books for Your Children," "TV and Reading," "Reading Aloud to Your Children," and "Upbeat and Offbeat Activities to Encourage Reading."

Books to Grow On: A Parent's Guide to Encouraging Young Readers. A resource for parents of children from infancy to age eleven.

The RIF Book of Ideas. A series of booklets on fundraising, selecting books for young people, and motivating children to read.

I Want You. A brochure to assist RIF projects in recruiting and training volunteers.

Reading Is Fun! Tips for Parents. A booklet offering suggestions on how to encourage children up to the age of eight to read.

Children's Bookshelf. An annotated list of 106 books for children up to the age of eleven.

Profiles. Descriptions of the publishers and distributors that serve RIF projects. The Profiles list special discounts and services offered by each supplier and are distributed annually to all projects.

NATIONAL GALLERY OF ART

- Aronson, Julie, contributor. American Naive Paintings from the National Gallery of Art. Washington, D.C.: National Gallery of Art, 1985.
- Ash, Nancy. "Media Problems." Paper Conservation Catalog (1985).
- Brown, David. "Leonardo and the Idealized Portrait in Milan." Arte Lombarda, 67 (1983-84):102-116.
- _____. "A Leonardesque Madonna in Cleveland." Scritti di storia dell'arte in onore di Federico Zeri, 2 vols. Milan, 1984. 1:291:301.
- _____. "Parmigianino at Fontanellato." FMR, no. 1 (1984):140-147.
- Carriveau, Gary W., et al. "Some Comparisons Among Majolica Samples from Faenza and Pesaro." Faenza, LXX, 1985.
- _____. "A Characterization of the Pesaro Samples in the Trace Elements." Bulletin American Ceramics Society, no. 5 (1985).
- _____. "Caratterizzazioni chimico-fisiche di campioni di majolica d'area romagnolo medioevale e post medioevale." Faenza, 1985.
- Chotner, Deborah, contributor. American Naive Paintings from the National Gallery of Art. Washington, D.C.: National Gallery of Art, 1985.
- Cikovsky, Nicolai, Jr. Essay and entries. George Inness [Exhibition catalogue] Los Angeles: Los Angeles County Museum of Art, 1985.
- _____. "The Civilized Landscape." American Heritage (April/May 1985):32-41.
- _____. "George Inness." FMR (1985).
- _____. "Notes on the Museum Set." Ansel Adams: Classic Images [Exhibition catalogue] Washington, D.C.: National Gallery of Art, 1985.
- Daniels, Maygene. "The International World of Archives." New England Archivists Newsletter.
- Doumato, Lamia, contributor. American Reference Books Annual. Littleton, Colorado: Libraries Unlimited, 1985.
- _____. [Review] Contemporary Designers ed. by Ann Lee Morgan. Reference Quarterly, 23, no.4 (Summer 1985):495, 505.
- _____. [Review] Helen Frankenthaler: Works on Paper by Karen Wilkin. Choice (July/August 1985):13.
- _____. [Review] A Woman's Touch: Women in Design from 1860 to the Present Day by Isabelle Anscombe. Choice (March 1985):21.
- _____, contributor. Gemini G.E.L.: Art and Collaboration. [Exhibition catalogue] Washington, D.C.: National Gallery of Art; New York: Abbeville Press, 1984.
- _____, contributor. Dictionary of Women Artists. Boston: G.K. Hall, 1985.
- Edelstein, J.M. [Review] Devour the Fire: Selected Poems of Harry Crosby. Fine Print, II, no. 2(April 1985):112.
- _____. [Review] Ezra Pound: A Bibliography by Donald Gallup. Credences: A Journal of Twentieth Century Poetry and Poetics, N.S., 3, no. 1(Spring 1984):202-203.
- Feigenbaum, Gail, contributor. Around 1610: The Onset of the Baroque. London, Matthiesen Gallery, 1985.
- _____. "Old Master Exhibitions in New York." Burlington Magazine, CXXVII, no. 985 (1985):255-56.
- Fine, Ruth, contributor. Gemini G.E.L.: Art and Collaboration. [Exhibition catalogue] Washington, D.C.: National Gallery of Art; New York: Abbeville Press, 1984.

- _____. "L.A. Prints." Essay in John Bidwell. ed., A Bibliophile's Los Angeles. Los Angeles: William Andrews Clark Memorial Library, UCLA, 1985.
- Freedberg, Sydney J. [Foreword] Five Centuries of Italian Painting, 1300-1800. [Exhibition catalogue] Houston: The Blaffer Collection.
- _____. "On Art History." New Criterion, 4, no. 1 (September 1985):18-21.
- Graselli, Margaret. "Prodiges des crayons." Beaux Arts (Collection Les Grandes Expositions), special issue devoted to Watteau (October 1984):50-55.
- Grier, Margot E., contributor. Gemini G.E.L.: Art and Collaboration. [Exhibition catalogue] Washington, D.C.: National Gallery of Art; New York: Abbeville Press, 1984.
- _____. "Belvedere Examined." Art Documentation, 3, no.4 (Winter 1984):128-130.
- Hirschauer, Gretchen. Leonardo da Vinci. Drawings of Horses from the Royal Library at Windsor Castle. [Exhibition brochure] Washington, D.C.: National Gallery of Art, 1985.
- _____. "Leonardo da Vinci's Studies of the Horse." The Chronicle of the Horse, 48, no. 11 (15 March 1985):38-39.
- Kelly, Franklin. [Review] Reflections of Nature by Ella Foshay. Winterthur Portfolio (Autumn 1985).
- Lewis, Douglas. "Madonna and Child, 1420s." In Jean C. Harris, ed., The Mount Holyoke College Art Museum, Handbook of the Collection. South Hadley, Massachusetts, 1984, 22-23.
- _____. "Il significato della decorazione plastica e pittorica a Maser." Bollettino del Centro Internazionale di Studi di Architettura, 22 ("1980"=1985), pt. 1, Atti del convegno internazionale su "Palladio e il palladianesimo":203-213.
- _____. "David with the Head of Goliath, Cast no. 1."; "David with the Head of Goliath, Cast no. 2"; and "David of the Casa Martelli." In Italian Renaissance Sculpture in the Time of Donatello. [Exhibition catalogue] Detroit: Detroit Institute of Arts, 1985.
- Luchs, Alison. "Madonna and Child under an Arch"; "Cosimo de' Medici, Pater Patriae"; "Bernardo Rossellino"; "A Lady of the Vespucci Family(?)"; "Francesco di Giorgio"; "The Deposition"; "Saint John the Baptist"; and "David." In Italian Renaissance Sculpture in the Time of Donatello. [Exhibition catalogue] Detroit: Detroit Institute of Arts, 1985.
- Lydecker, John Kent. "The Patron, Date and Original Location of Andrea del Sarto's Tobias Altar-piece." The Burlington Magazine, 127 (1985):349-355.
- Olivetti, Trudi, contributor. Scholars' Guide to Washington, D.C. for Audio Resources: Sound Recordings in the Arts, Humanities, and Social, Physical and Life Sciences. Washington, D.C.: Smithsonian Institution Press, 1985.
- Owens, Carlotta J. John James Audubon: The Birds of America. [Exhibition catalogue] Washington, D.C.: National Gallery of Art, 1984.
- _____, contributor. Gemini G.E.L.: Art and Collaboration. [Exhibition catalogue] Washington, D.C.: National Gallery of Art; New York: Abbeville Press, 1984.
- Rice, Danielle. "Elizabeth Vigée-Lebrun vs. Adelaide Labille-Guiard: A Rivalry in Context." Proceedings of the Western Society of French History, 1984.

- _____, contributor. "Women and the Visual Arts." In French Women and the Age of Enlightenment. Bloomington, Indiana: Indiana University Press, 1984.
- Robison, Andrew C. Master Prints from Washington Private Collections. [Exhibition brochure] Washington, D.C.: National Gallery of Art, 1985.
- _____. "Prints of the Brucke Artists." German Expressionist Prints from the Collection of Ruth and Jacob Kainen. [Exhibition catalogue] Washington, D.C.: National Gallery of Art, 1985.
- _____. "The Museum Curator and Fine Prints: Past, Present, and Future." Books and Prints, Past and Future. New York: The Grolier Club, 1984.
- Russell, H. Diane. Robert Nanteuil: Portrait Engraver to the Sun King. [Exhibition catalogue] Washington, D.C.: National Gallery of Art, 1985.
- Stuckey, Charles F. "Degas as an Artist; Revised and Still Unfinished." Degas - form and space. Paris: Centre culturel du Marais, 1984.
- _____. "Monet's art and the act of vision." In John Rewald and Frances Weitzenhoffer eds., Aspects of Monet. New York: Harry N. Abrams, Inc., 1984, 108-21.
- _____. Seurat. Mount Vernon, New York: The Artist's Limited Edition, 1984.
- _____, editor. Monet: A Retrospective. New York: Hugh Lauter Levin Associates, Inc., 1985.
- _____. "Parthenon Fever." [Letter to the editor] Art in America, 73 (February 1985):5
- _____. "Rebecca Howland's Brainwash." In ABC No Rio Dinero: The Story of a Lower East Side Art Gallery. New York, 1985:159-61.
- _____. [Review] Renoir: His Life, Art, and Letters by B. E. White. Art in America, 72 (December 1984):23-24.
- _____. [Review] Degas: His Life, Times and Work by R. McMullen, and James Tissot by M. Wentworth. Art in America, 73 (June 1985):17-19.
- _____. [Review] 19th-Century Art by R. Rosenblum and H. W. Janson. Art in America, 73 (February 1985):17-19.
- _____. "Recent Degas Publications." Burlington Magazine, 127, no. 988 (July 1985):465-67.
- Tuttle, Virginia. "Lilith in Bosch's Garden of Earthly Delights." Simiolus, 16, no.2 (1985).
- Williams, William James. [Introduction] "Impressionism from Paris to Washington." In John House, Impressionist Masterpieces, National Gallery of Art, Washington. New York: Hugh Lauter Levin Associates, Inc., 1985, 6-23.
- Wilmerding, John. [Foreword] Monotypes by Maurice Prendergast in the Terra Museum of American Art. Chicago, 1984, 5-6.
- With, Christopher, contributor. "Prints of the 1920's: An Art of Engagement" and "Prints of the 1920's: A New Direction." German Expressionist Prints from the Collection of Ruth and Jacob Kainen. [Exhibition catalogue] Washington, D.C.: National Gallery of Art, 1985, 71-103..
- Wolff, Martha. German and Netherlandish Masters of the Fifteenth and Sixteenth Centuries. The Illustrated Bartsch, X. New York, 1985.

Appendix 7

The Smithsonian Institution and Its Subsidiaries, September 30, 1985

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Curators Emeritus

Administrative Assistant
Collections Manager
Deputy Collections Manager
Paleobiological Information
Specialist
Scientific Illustrator
Vertebrate Paleontology
Preparation Laboratory,
Supervisor
Senior Scientists

Ian G. Macintyre
G. Arthur Cooper
C. Lewis Gazin
Betty M. Lomax
Frederick J. Collier
Jann W. M. Thompson

Raymond T. Rye II
Mary A. Parrish

Arnold D. Lewis
Richard H. Benson
(Appointed June 9, 1985)
Richard E. Grant
Porter M. Kier
(Retired June 3, 1985)

Geologists

Curators

Associate Curators

Ian G. Macintyre
James F. Mello
Kenneth M. Towe
Walter H. Adey
Richard S. Boardman
(Retired March 31, 1985)
Martin A. Buzas
Alan H. Cheetham
Robert J. Emry
Nicholas Hotton III
Francis M. Hueber
Jack W. Pierce
Clayton E. Ray
Thomas R. Waller
Anna K. Behrensmeyer
William A. DiMichele
(Appointed
September 15, 1985)
Scott L. Wing
(Appointed
September 30, 1984)

RESEARCH ASSOCIATES, COLLABORATORS, AND AFFILIATED
SCIENTISTS

Jean M. Berdan
William A. Berggren
Raymond L. Bernor
Gioacchino M. Bonaduce
Arthur J. Boucot
Sankar Chatterjee
Anthony G. Coates
Josephine W. Cooper
Steven J. Culver
Daryl P. Domning
Raymond C. Douglass
J. Thomas Dutro, Jr.
Ralph E. Eshelman
Jerzy A. Federowski
Robert M. Finks
Frank A. Garcia
Mackenzie Gordon, Jr.
Richard R. Graus
Peter C. Griffith
Peter J. Harmatuk
Jessica A. Harrison
Leo J. Hickey
S. Taseer Hussain
Jeremy B. C. Jackson
Gilbert Kelling
Carl F. Koch
N. Gary Lane

Kenneth E. Lohman
Venka V. Macintyre
Sergius H. Mamay
Robert B. Neuman
William A. Oliver, Jr.
Thomas F. Phelan
John Pojeta, Jr.
Roy H. Reinhart
Charles A. Repenning
Kenneth D. Rose
Bruce Runnegar
William J. Sando
Judith Schneider
Vincent P. Schneider
R. Craig Shipp
Frederick J. Siegel
Elwyn L. Simons
Judith Skog
Roberta K. Smith-Everenden
Norman F. Sohl
Donald Spoon
George D. Stanley, Jr.
Frank C. Whitmore, Jr.
Druid Wilson
Ellis L. Yochelson
Rinaldo Zinardi

Vertebrate Zoology

Chairman
Collections Manager
Administrative Assistant

W. Ronald Heyer
J. Phillip Angle
Anna L. Datcher

FISHES

Curators

Associate Curators

Robert H. Gibbs, Jr.
Victor G. Springer
Stanley H. Weitzman
G. David Johnson
Richard P. Vari

AMPHIBIANS AND REPTILES

Curators

W. Ronald Heyer
George R. Zug

BIRDS

Curators

Storrs L. Olson
George E. Watson
(Resigned January 3, 1985)
Richard L. Zusi

MAMMALS

Curators

Associate Curator

Charles O. Handley, Jr.
James G. Mead
Richard W. Thorington, Jr.
Michael D. Carleton

OFFICE OF THE SECRETARY EMERITUS

Secretary Emeritus
Special Assistant
Museum Specialist

S. Dillon Ripley
Adele Y. Issa
Bruce M. Beehler

RESEARCH ASSOCIATES, COLLABORATORS, AND AFFILIATED SCIENTISTS

John W. Aldrich (Birds)	Michael Goulding (Fishes)
John S. Ash (Birds)	Martha B. Hays (Birds)
Richard C. Banks (Birds)	Richard Highton (Amphibians and Reptiles)
John C. Barber (Birds)	George J. Jacobs (Amphibians and Reptiles)
Bruce M. Beehler (Birds)	Frances C. James (Birds)
William Belton (Birds)	Gordon L. Kirkland, Jr. (Mammals)
Gregory D. Bentz (Birds)	Irving L. Kornfield (Fishes)
Michael A. Bogan (Mammals)	William H. Krueger (Fishes)
Heraldo Britski (Fishes)	Roxie C. Laybourne (Birds)
Eleanor D. Brown (Birds)	John M. Legler (Amphibians and Reptiles)
Robert L. Brownell, Jr. (Mammals)	Roy W. McDiarmid (Amphibians and Reptiles)
Bruce B. Collette (Fishes)	Antonio Machado-Allison (Fishes)
C. Kenneth Dodd, Jr. (Amphibians and Reptiles)	Francisco Mago-Leccia (Fishes)
Andrzej Elzanowski (Birds)	Joe T. Marshall (Birds)
Louise H. Emmons (Mammals)	Linda R. Maxson (Amphibians and Reptiles)
Robert K. Enders (Mammals)	Naercio Menezes (Fishes)
Carl H. Ernst (Amphibians and Reptiles)	Joseph C. Mitchell (Amphibians and Reptiles)
Alan Feduccia (Birds)	Ralph S. Palmer (Birds)
Sara V. Fink (Fishes)	Lynne R. Parenti (Fishes)
William L. Fink (Fishes)	Allan R. Phillips (Birds)
Mercedes S. Foster (Birds)	Ronald H. Pine (Mammals)
Thomas H. Fritts (Amphibians and Reptiles)	Gregory K. Pregill (Amphibians and Reptiles)
Jeffery Froehlich (Mammals)	John E. Randall (Fishes)
Alfred L. Gardner (Mammals)	G. Carleton Ray (Mammals)

Randall R. Reeves
 (Mammals)
 S. Dillon Ripley
 (Birds)
 C. Brian Robbins
 (Mammals)
 Alan H. Savitzky
 (Amphibians and Reptiles)
 Albert Schwartz
 (Amphibians and Reptiles)
 Norman J. Scott, Jr.
 (Amphibians and Reptiles)
 William F. Smith-Vaniz
 (Fishes)
 David W. Steadman
 (Birds)
 Kenneth J. Sulak
 (Fishes)
 Stephen G. Tilley
 (Amphibians and Reptiles)

James C. Tyler
 (Fishes)
 Joseph P. Ward
 (Amphibians and Reptiles)
 Richard J. Wassersug
 (Amphibians and Reptiles)
 Marilyn Weitzman
 (Fishes)
 John S. Weske
 (Birds)
 Claudia P. Wilds
 (Birds)
 E. O. Wiley
 (Fishes)
 James D. Williams
 (Fishes)
 Don E. Wilson
 (Mammals)
 David B. Wingate
 (Birds)

Smithsonian Oceanographic Sorting Center

Director
 Administrative Assistant
 Marine Biologists

Leslie W. Knapp
 Patricia K. Buckley
 Frank D. Ferrari
 Gordon L. Hendler
 Betty J. Landrum
 Ernani G. Menez

Smithsonian Marine Station At Link Port

Scientist-in-Charge
 Administrative Officer
 Research Assistants

Mary E. Rice
 June J. Jones
 William D. Lee
 Sherry Anne Petry
 Julianne Piraino
 Hugh F. Reichardt

MUSEUM SUPPORT CENTER

Director
 Administrative Assistant
 Collections Coordinator
 Data Manager
 Shipping Officer
 Facility Manager

U. Vincent Wilcox
 Patti B. Young
 Wendy C. Jessup
 Joan B. Andrews
 James Lee
 (Appointed June 23, 1985)
 Charles E. Dunn

National Zoological Park

Director Michael H. Robinson

Chief, Office of Public Affairs Robert J. Hoage

Chief, Office of Education Judith White

Registrar Judith Block

Executive Officer,

Chief Office of Management Services Vincent J. Doyle

Budget Officer James E. Fitzpatrick

Personnel Coordinator Michael J. Johnson

Management Analyst Peter B. Kibbee

Assistant Director for Support Services Gaetano G. Calise, Jr.

Assistant Director for Research Devra G. Kleiman

Assistant Director for Conservation and

Captive Breeding Programs Christen M. Wemmer

Curators:

Department of Herpetology Dale Marcellini

Department of Mammalogy Edwin Gould

Research Primatologist Benjamin Beck

Department of Ornithology Scott Derrickson

Department of Zoological Research:

Assistant Director for Research Devra G. Kleiman

Scientific Staff Eugene S. Morton

Katherine S. Ralls

Miles Roberts

Rasanayagam Rudran

Population Manager Jonathan Ballou

Research Associates and Affiliated Scientists (Zoological Research):

Associate in Ecology S. Dillon Ripley

Collaborators

Adelmar Coimbra-Filho
Wolfgang Dittus
Richard Estes
John Gittleman
Russell G. Greenberg
Susan Lumpkin
Galen B. Rathbun
John Robinson
Melvin Sunquist
Susan Wilson

Priya Davidar
John F. Eisenberg
John Frazier
Theodore Grand
James G. Hallett
Nancy Muckenhirn
Douglas Richards
Kenhelm W. Scott
Betsy Trent Thomas

Department of Animal Health:

Veterinarian-in-Charge R. Mitchell Bush

Associate Veterinarian Lyndsay Phillips, Jr.
Animal Physiologist David Wildt

Research Associates (Animal Health):

Prabir Chakraborty
Stephen J. O'Brien

Beverly Gilroy

Collaborators

Michael D. Abramowitz
Max J. Appel
Thomas McPherson Brown
Art Clextion
A. Everette James, Jr.
Seth A. Koch
Douglas W. McKay
Carroll Platz
Edward Ruley

Richard Alsakar
Kenneth C. Bovée
Harold Clark
M. Kathryn Hammock
John Knight
Bill Lasley
Stephen J. O'Brien
William J. Ravich
Patricia Schmidt

Department of Pathology:

Pathologist-in-Charge Richard J. Montali

Research Associates (Pathology):

George P. Allen
Max J.G. Appel
George Imes
John Strandberg

Richard Alsaker
Chris Gardiner
Bruce Smith
Bernard Zook

Department of Conservation, Front Royal, Virginia

Curator-in-Charge Christen M. Wemmer

Research Associates:

Peter August
Richard Estes
Hemanta Mishra
Rickard Watling

Joel Berger
Charles McDougal
Rodney Jackson

Facilities Manager John N. Williams

Office of Support Services

Office of Facilities Management

Chief David Boothe

Office of Construction Management

Chief Donald Muddiman

Office of Graphics and Exhibits

Chief Robert E. Mulcahy

Office of Police and Safety

Chief Samuel L. Middleton, Jr.

Friends of the National Zoo

Executive Director (Acting) Robert Mason

OFFICE OF FELLOWSHIPS AND GRANTS

Acting Director-----Roberta W. Rubinoff
Administrative Officer-----Catherine F. Harris
Grants Program Manager-----Francine C. Berkowitz
Grants Program Assistant-----L. Ernelle Ross
Academic Programs Manager-----Raymond W. Branham
Academic Network Coordinator-----Magali M. Carrera
Academic Programs Specialist-----Jacki Thompson Rand
Academic Programs Assistant-----Carolyn McManus
Records Coordinator-----Amelia Crittenberger

SMITHSONIAN ASTROPHYSICAL OBSERVATORY

Director Irwin Shapiro

Lois Aguilar-Chiu
Yoram Avni
Eugene H. Avrett
Robert Babcock
Sallie L. Baliunas
Eric Bloemhof
Donato Bramanti
Victoria Buch
Nathaniel P. Carleton
Frederic H. Chaffee
Kelly V. Chance
John Chandler
Jon H. Chappell
M. Mark Colavito
James B. Conklin, Jr.
Allan F. Cook, II
Valerie de Lapparent
Robert J. Davis
Marino Dobrowolny
Andrzej K. Drukier
Andrea K. Dupree
Martin S. Elvis
Robert Estes
Giuseppina Fabbiano
Daniel G. Fabricant
Michel Faucherre
Giovanni G. Fazio
George B. Field
Edward L. Fireman
William Forman
Jane L. Fox
Fred A. Franklin
Franco Fuglini
Larry Gardner
John C. Geary
Margaret Geller
Owen Gingerich
Isabella Gioia
Leon Golub
Paul Gorenstein
Mario Grossi
Stephen L. Guberman
Gordon Gullahorn
Alan H. Guth
Carl R. Gwinn
Shadia Habbal
F. R. Harnden, Jr.
Daniel Harris
Lee W. Hartmann
Robert G. Hohlfield
John P. Huchra

John Hughes
Edward Imbier
Christine Jones-Forman
Kenneth Kalata
Wolfgang Kalkofen
Scott Kenyon
Kate Kirby
David G. Koch
John L. Kohl
Michael Kurtz
Robert L. Kurucz
Donald Q. Lamb
David W. Latham
Myron Lecar
Russell M. Levreault
Robert R. Lewis
Alan P. Lightman
Florence J. Lin
Edward Lilley
Enrico Lorenzini
Tommaso Maccacaro
Brian Marsden
Ursula B. Marvin
Robert D. Mathieu
Edward Mattison
Jeffrey McClintock
Richard E. McCrosky
Gary J. Melnick
James Moran
Stephen Murray
Philip Myers
Peter Nisenson
Robert W. Noyes
Costas Papaliolios
William H. Parkinson
Francis Primini
Harrison E. Radford
John C. Raymond
Robert Reasenberg
Mark Reid
George B. Rybicki
Rudolph Schild
Daniel Schwartz
Joseph Schwarz
Frederick Seward
Michael Shao
Jack Slowey
Robert Stachnik
Robert P. Stefanik
Harvey Tananbaum
Wesley Traub

Ginevra Trinchieri
Wallace Tucker
Jean Turner
Giuseppe Vaiana
Leon Van Speybroeck
Robert Vessot
George A. Victor
Trevor C. Weekes
Wei Shen
Steven Weinberg
Fred L. Whipple
Charles A. Whitney
Belinda Wilkes
Steven P. Willner
George L. Withbroe
John A. Wood
Diana Worrall
Kouichi Yoshino
Martin Zombeck

SMITHSONIAN ENVIRONMENTAL RESEARCH CENTER

Director.....	William H. Klein
Assistant Directors.....	David L. Correll
	Walter Shropshire, Jr.
Executive Officer.....	Carolyn M. Walker
Administrative Officer.....	Joseph C. Fisher
Office Manager.....	Joanne Battista
Facilities Manager.....	Robert N. Davis
Program Assistants for Public Information...	Linda Chick
	Judy Collins
Agricultural Engineer.....	John Sager
Anthropologist.....	Robert Stuckenrath
Biochemist.....	Maurice Margulies
Biologist.....	Elisabeth Gantt
Geneticist.....	Roy W. Harding, Jr.
Physicist.....	Bernard Goldberg
Plant Ecologist.....	Dennis F. Whigham
Plant Physiologists.....	Charles F. Cleland
	Gerald Deitzer
	Bert G. Drake
	William O. Smith
Zoologists.....	Anson H. Hines
	James F. Lynch

Affiliated Scientists:

Biochemist.....	Barbara Chereskin
Ecologist.....	Thomas E. Jordan
Modelers.....	Henry McKellar
	Donald Weller
Plant Biologist.....	Israel Levy
Plant Physiologist.....	Francis X. Cunningham, Jr.
Zoologist.....	Romuald Lipcius

Smithsonian Office of Educational Research

Director	John H. Falk
Administrative Assistant	Mary Mangone
Senior Research Psychologist	John D. Balling
Research Psychologist	Deborah D. Hilke

SMITHSONIAN TROPICAL RESEARCH INSTITUTE

Director.....Ira Rubinoff
Deputy Director.....James R. Karr
Senior Scientist.....Martin H. Moynihan
Executive Officer.....Franklin Morris
(Resigned 08/31/85)
Special Assistant to the Director.....Elena Lombardo
Superintendent, Barro Colorado
Nature Monument.....Gilberto Ocaña
Facilities Manager.....Ramon Ely
Chief, Procurement Section.....Mercedes Arroyo
Personnel Specialist.....Hernando Leyton
Coordinator, Educational Programs.....Georgina de Alba
Budget Analyst.....Carmen Sucre

Scientific Staff

John H. Christy	Luis D'Croz
Richard G. Cooke	Kerry Ann Dressler
John Cubit	Robin Foster
Robert L. Dressler	Nathan Gale
William G. Eberhard	Pedro Galindo
Peter W. Glynn	Judy Gradwohl
(resigned 08/17/85)	Jeffrey B. Graham
Stephen P. Hubbell	Stanley Heckadon
Jeremy J.C. Jackson	Leslie Johnson
Nancy Knowlton	Yael Lubin
Egbert G. Leigh, Jr.	Ernst Mayr
Harilaos A. Lessios	Jorge Motta
Olga F. Linares	Anthony Ranere
G. Gene Montgomery	Michael Ryan
A. Stanley Rand	Myra Shulman
D. Ross Robertson	Gordon B. Small
Arcadio F. Rodaniche	W. John Smith
David W. Roubik	F. Gary Stiles
Alan P. Smith	Henry Stockwell
Neal G. Smith	Katherine Troyer
Nicholas Smythe	Paulo E. Vanzolini
Mary Jane West-Eberhard	Fritz Vollrath
Donald M. Windsor	
Hindrik Wolda	
S. Joseph Wright	

Research Associates

Annette Aiello
Robin Andrews
Carlos Arellano-Lennox
Charles Bennett, Jr.
John Bort
Nicholas Brokaw
Gordon M. Burghardt
Terry E. Christenson
Mireya Correa

HISTORY AND ART

Acting Assistant Secretary Dean Anderson
Special Assistant Beverly Lang
Administrative Officer Patricia DuVall

ANACOSTIA NEIGHBORHOOD MUSEUM

Director John R. Kinard
Administrative Officer Audrey Archer
Director of Research Vacant
Historian Louise Hutchinson
Education Specialist Zora Felton
Supervisory Visual
Information Specialist Sharon Reinckens
Supervisory Exhibits
Specialist James Mayo
Photographer Christopher Capilongo

ARCHIVES OF AMERICAN ART

Washington Headquarters Office

Director	Richard N. Murray
Senior Curator	Garnett McCoy
Curator of Manuscripts	Arthur Breton
Collections Manager	Judy E. Throm
Area Collector	Liza Kirwin
Administrative Officer	Sherrill Berger

New York Headquarters Office

Deputy Director	Susan Hamilton
Development Officer	Ilene Rubin
Administrative Assistant	Larry Clark

Midwest Regional Center

Regional Director	Sue Ann Kendall
-------------------	-----------------

New York Regional Center

Regional Director	William McNaught
-------------------	------------------

New England Regional Center

Regional Director	Robert Brown
-------------------	--------------

West Coast Regional Center

Regional Director	Paul Karlstrom
-------------------	----------------

Southern California Research Center

Area Collector	Stella Paul
----------------	-------------

CENTER FOR ASIAN ART
 FREER GALLERY OF ART and the
 ARTHUR M. SACKLER GALLERY

Director.....	Thomas Lawton
Assistant Director, Freer Gallery.....	Richard Louie
Assistant Director, Sackler Gallery.....	Milo C. Beach
Administrative Officer.....	Sarah Newmeyer-Hill
Curator, Chinese Art.....	Shen C. Y. Fu
Curator, Near Eastern Art.....	Glenn D. Lowry
Assistant Curator, Japanese Art.....	Ann Yonemura
Coordinator of Special Programs.....	Esin Atil
Head Conservator, Technical Laboratory.....	W. Thomas Chase
Conservation Scientist.....	John Winter
Conservator.....	Paul Jett
Conservator.....	Jane Norman
Conservation Scientist.....	Janet Snyder
Head Conservation Specialist.....	Ryo Nishiumi
Conservation Specialist.....	Yoshiyuki Nishio
Museum Specialist (Ceramics).....	Louise A. Cort
Museum Specialist (Ceramics).....	Josephine H. Knapp
Exhibition Designer.....	Patrick H. Sears, III
Librarian.....	Ellen A. Nollman
Assistant Librarian.....	Lily Chia-Jen Kecskes
Head Registrar.....	Eleanor Radcliffe
Registrarial Specialist.....	Harriet McWilliams
Registrar.....	Emily J. Dyer
Director of Merchandising and Marketing.....	Rosaria Guaragna
Docent Coordinator.....	Gayle Southworth
Honorary Associates.....	Richard Edwards
	Calvin French

COOPER-HEWITT MUSEUM

Director.....	Lisa Taylor
Assistant Director.....	Harold Francis Pfister
Administrator.....	Linda Dunne
Administrative Specialist.....	William Gaske
Administrative Assistant to Director...	Larry Deemer
	(Appointed 9/3/85)
Curator of Drawings and Prints.....	Elaine Evans Dee
Curator of Decorative Arts.....	David Revere McFadden
Curator of Textiles.....	Milton Sunday
Assistant Curator of Textiles.....	Gillian Moss
Librarian.....	Katharine Martinez
Conservator, Textiles.....	Lucy Commoner
Conservator, Paper.....	Konstanze Bachmann
Registrar.....	Cordelia Rose
Editor.....	Nancy Akre
Exhibition Coordinator.....	Dorothy Globus
Exhibition Designer.....	Robin Parkinson
Exhibition Researcher.....	Lucy Fellowes
Public Information Manager.....	Isabelle Silverman
Program Coordinator.....	Susan Yelavich
Program Coordinator.....	George King
	(Appointed 7/29/85)
Chief of Security.....	Luis Palau
Building Manager.....	Jim Ledford

Hirshhorn Museum and Sculpture Garden

Director	James T. Demetrion
Deputy Director	Stephen E. Weil
Executive Officer	Nancy F. Kirkpatrick
Chief Curator	Charles W. Millard
Curator of Exhibitions	Cynthia Jaffee McCabe
Associate Curators	Valerie Fletcher
	Howard N. Fox
	Frank B. Gettings
	Phyllis Rosenzweig
	Judith Zilczer
Librarian	Anna Brooke
Chief Conservator	Laurence Hoffman
	(Appointed October 21, 1985)
Conservators	Leland Aks
	Clarke Bedford
	Susan Lake
	Antoinette Owen
	Douglas Robinson
	Edward Lawson
	Joseph Shannon
	Sidney Lawrence
	Lee Stalsworth
	Frank Underwood
Registrar	
Chief, Education	
Chief, Exhibits and Designs	
Public Information Officer	
Photographer	
Building Manager	

JOSEPH HENRY PAPERS

Editor.....	Nathan Reingold
Associate Editor.....	Marc Rothenberg
Assistant Editors.....	Kathleen W. Dorman
	Paul Theerman
Administrative Officer.....	Beverly Jo Lepley

NATIONAL MUSEUM OF AFRICAN ART

Director.....	Sylvia H. Williams
Associate Director	
for Collections and Research.....	Roy Sieber
Assistant Director.....	Jean Salan
Founding Director Emeritus.....	Warren Robbins
Curators.....	Lydia Puccinelli
	Roslyn A. Walker
Assistant Curators.....	Bryna Freyer
	Andrea Nicolls
Public Affairs Officer.....	Margaret Bertin
Curator of Education.....	Edward Lifschitz
Operations Manager.....	Basil Arendse
Chief, Office of Design.....	Richard Franklin
Conservator.....	Stephen Mellor
Photo Archivist.....	Judith Luskey
Librarian.....	Janet Stanley
Docent/Intern Coordinator.....	Marjorie Turgel

NATIONAL MUSEUM OF AMERICAN ART

Director

Assistant Director, Chief Curator
Assistant Director, Museum Programs
Assistant Director, Museum Resources
Assistant to the Director
Administrative Officer
Senior Curatorial Advisor
Director, Renwick Gallery
Curator, Renwick Gallery
Curator, Research
Curator, Barney Studio House
Curators, Painting and Sculpture

Associate Curator, Painting and
Sculpture
Curator, Graphic Arts

Associate Curators, Graphic Arts

Assistant Curator, Painting and
Sculpture
Senior Conservator
Conservators

Deputy Assistant Director for
Museum Programs
Chief, Office of Design and Production

Chief Designer, Office of Design and
Production
Chief, Office of Intern Programs
Chief, Office of Public Affairs

Charles C. Eldredge
Elizabeth Broun
Barbara Shissler Nosanow
Charles J. Robertson
Julie A. Schimmel
Sherwood A. Dowling
Adelyn D. Breeskin
Lloyd E. Herman
Michael W. Monroe
Lois M. Fink
Jean L. Lewton
Virginia H. Mecklenburg
Harry Z. Rand
William H. Truettner

Robin L. Bolton-Smith
Janet L. Flint
(resigned 10/5/84)
Merry A. Foresta
Martina R. Norelli

Lynda Roscoe Hartigan
Stefano Scafetta
Ann M. Creager
Katherine G. Eirk
(resigned 7/19/85)
R. Quentin Rankin
Meredith P. Mickelson

Judith R. O'Sullivan
David B. Keeler
(resigned 3/15/85)

Val E. Lewton
Patricia H. Chieffo
Margery A. Byers

Chief, Office of Research Support
Assistant Chief, Office of Research
Support

Coordinator, Computer Resources

Coordinator, Inventory of American
Paintings

Head, Special Services Programs
Editor, Office of Publications

Registrar

Assistant Registrar for Loans

Assistant Registrar for Permanent
Collection

Assistant Registrar for Packing
and Shipping

Producer, Art Documentaries

Head, Docents and Volunteer Services

Chief Photographer

Librarian NMAA/NPG

Assistant Librarian NMAA/NPG

Building Manager NMAA/NPG

Eleanor E. Fink

Rachel M. Allen

James L. Yarnall
(resigned 2/1/85)

Martha S. Andrews
(resigned 11/2/84)

Margaret P. Cogswell

Gaye L. Brown
(appointed 4/14/85)

W. Robert Johnston

Melissa L. Kroning

Thomas W. Bower

Michael R. Smallwood

Alison R. Abelson

Nora M. Panzer

Michael G. Fischer

Cecilia H. Chin

Patricia M. Lynagh
(appointed 9/3/85)

Helen M. Dalaski

NATIONAL MUSEUM OF AMERICAN HISTORY

Director.....	Roger G. Kennedy
Deputy Director.....	Douglas E. Evelyn
Assistant Director for Administration....	Ronald E. Becker
Administrative Officer.....	Richard J. Nicastro
Special Assistants to the Director.....	Naomi Glass
	Lawrence A. Bush
	Richard S. Virgo
Museum Support Manager.....	Renee Kortum

National Numismatics Collections

Historian.....	Elvira Clain-Stefanelli
Curator.....	Coralee C. Gilliland

National Philatelic Collections

Executive Director.....	Herbert R. Collins
Curators.....	Reidar Norby
	James H. Bruns

Afro-American Communities Project

Director.....	James O. Horton
---------------	-----------------

Archives Center

Senior Archivist.....	John Fleckner
Archivist.....	Robert Harding
Historian.....	Spencer Crew

Office of Building Management

Building Manager.....	James D. Whoolery
-----------------------	-------------------

Computer Services Center

Chief.....	Dennis S. Dickinson
------------	---------------------

Division of Conservation

Head Conservator.....	J. Scott Odell
-----------------------	----------------

Eisenhower Institute for Historical Research

Director.....	Vacant
---------------	--------

Department of Exhibits

Assistant Director for Exhibits.....	J. Michael Carrigan
Deputy Assistant Director.....	Leonard Faber
Chief, Design Division.....	Deborah M. Bretzfelder
Chief, Exhibits Production.....	Walter N. Lewis
Chief, Historic Restoration.....	Charles Rowell

Department of Public Programs

Assistant Director for Public Programs....	Lonn Taylor
Design.....	Crimilda Pontes
Director, Program in Black American History.....	Bernice Reagon
Editor.....	Robert Selim
Education.....	Elizabeth Sharpe
Performance Director.....	James Weaver
Production Director.....	Harold Closter
Public Information Officer.....	Mary Dyer
Publications Officer.....	Camellia Taiwo

Office of the Registrar

Registrar.....	Martha Morris Shannon
Assistant Registrar.....	Katherine P. Spiess

Department of the History of Science and Technology

Chairman.....	Arthur P. Molella
Deputy.....	William L. Withuhn

Agriculture and Natural Resources

Curators.....	James C. Daniel
	George T. Sharrer

Armed Forces History

Curators.....	Edward C. Ezell
	Donald E. Kloster
	Harold D. Langley
Historian.....	James Hutchins
Curator Emeritus.....	Craddock R. Goins, Jr.

Electricity and Modern Physics

Curators.....	Bernard Finn
	Paul Forman

Mathematics

Curator.....	Uta C. Merzbach
--------------	-----------------

Mechanisms

Curators..... Carlene Stephens
David Noble

Medical Sciences

Curators..... Audrey B. Davis
Ramunas A. Kondratas
Barbara Melosh
Curator Emeritus..... Sami K. Hamarneh

Mechanical and Civil Engineering

Curator..... Robert M. Vogel

Photographic History

Curator..... Eugene Ostroff

Physical Sciences

Curators..... Deborah J. Warner
Jon B. Eklund

Transportation

Curators..... John H. White
William L. Withuhn
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Mr. Robert S. Boyd: German World War I machine gun and equipment from World War I.

Brevard County Board of Education: U.S. flag flown aboard the Freedom 7 spacecraft with Alan B. Shepard.

Cessna Aircraft Company: radar set remote control, radar set mixer amplifier, radar set indicator, 2 radar set power supplies, 4 radar set RF tuners, and VHF gang alignment fixture.

Mr. Norman K. Chipps: radio receiver, spare parts kit, Bendix, radio compass, altimeter, gun mount, and gunsight.

Mr. Mark Clark: painting, Lotsa Luck, by Mark Clark.

Mr. Carl B. Cobb: Sputnik model music box.

Colspan Environmental Systems: 2 sounding rockets.

Mr. Michael Collins (through Michael Collins Associates): personal items from the Gemini 10 and Apollo missions.

Ms. Carol E. Cronin: pilot's badge.

Curtiss-Wright Flight Systems Inc.: propeller and propeller control power unit.

Mr. John Davidson: print, Deploying to Kingsley, by William Phillips.

Mr. Edward P. Davis: signal light.

Dow Chemical Company: aircraft, Windecker Eagle I.

Mr. Rowland Emett: drawing, Study for the SS Pussiewillow II, by Rowland Emett.

Mr. Gudmundur Erro: painting, Apollo 5, by Gudmundur Erro.

Federal Aviation Administration: engine, Turbojet J-69-T 25A.

Mr. Paul E. Garber: pilot badge, 3 medals, and a brass cartridge case.

Honorable E. J. (Jake) Garn: 2 STS 51-D flight patches and 2 Senator Jake Garn flight patches.

Mr. Frank Garove: radio transmitter and receiver.

Mr. David Gerrold: "Tribbles" from the Star Trek television program.

Mr. R. T. Godden: plastic vial.

Grid Systems Corporation: grid compass computer.

Daniel and Florence Guggenheim Foundation: Goddard rocket and engine.

Dr. Emmitt E. Hancock: 1 pair high-top service shoes, World War II.

Mr. John J. Hanson: model airplane engine.

Mr. William T. Hardaker: 2 flying jackets, flying suit, flying gloves, and goggles.

Mr. James E. Hardnock: navigation clock.

Mr. John Hartman: radio telegraph transmitter.

Mrs. Ronald Hemphill: aircraft alignment indicator.

Mr. Clifford W. Henderson Family Trust: Bendix trophy.

Honeywell Inc.: ring laser gyro inertial reference unit.

Mr. Fred P. Hueber: summer flying suit.

Japan Air Lines: model aircraft, Boeing 747 LR.

Mr. Frederick Jensen: coil set and aircraft radio receiver.

Johns Hopkins University, Applied Physics Laboratory: satellite.

Mr. Thomas Jones: painting, VSF1 Squadron, A-4 Skyhawks, by Thomas Jones.

Mr. G. Stanley Joslin: poster used as a World War II training aid.

Ms. Mary Juhasz: airship ladder.

Mr. Art Kingston: U.S. Air Force aircrew cap.

Mr. Preston Kirk: early U.S. aircraft instruments.

Mr. Siegfried Knoll: propeller pitch indicator instrument.

Mr. Craig Kodera: painting, Good Afternoon Phoenix (Super 80), by Craig Kodera.

Mr. Arnold Kolb: summer flying helmet.

Mr. I.A. Kurzman: World War II Japanese propaganda leaflets.

Mr. Ronald E. Lewis: aircraft model, Convair 880.

Mr. Lefferts Mabie Jr.: aircraft, Piper J-2 Cub.

Ms. April May: weaving, Veil Nebula, by April May.

Ms. Imogene McCausland: 5 paintings, Lunar Basalt #4-Apollo 15, Lunar Basalt #5-Apollo 17, Anorthosite, Lunar Basalt #9, and Lunar Basalt #10, by Imogene McCausland.

Mr. Phillip McCoy: Japanese aircraft instruments.
 Mr. Samuel E. McIntosh: World War II aircraft radio equipment.
 Maj. Paul E. McVickar: 2 radio receivers and omniscope.
 Mrs. Allen H. Meyers: altimeter, goggles, and helmet.
 Mr. Robert Millstone: propeller.
 Monterey Park Police Dept.: aircraft, American Aerolights Double Eagle.
 Mr. Greg Mort: painting, Portrait of Christian Huygens, by Greg Mort.
 Mr. Kenneth M. Murray: Polish Air Force badges, circa 1920.
 Mr. Atsundo Nagao: photographs of Charles and Anne Lindbergh and a Japanese watercolor of Lindbergh's "Sirius".
 National Aeronautics Association: MacKay Trophy.
 National Aeronautics and Space Administration, Ames Research Center: Mars penetrator droptest.
 National Aeronautics and Space Administration, Goddard Space Flight Center: model landsat multi-spectral scanner.
 National Aeronautics and Space Administration, Johnson Space Center: 2 pocket calculators, unitized electric power circuit board, liquid cooling garment, abort electronics assembly, left glove, right glove, 2 television cameras, camera control unit, Royal Doulton plate with Discovery 41-D mission logo, and transfer paper for plate signed by the mission crew members.
 National Aeronautics and Space Administration, Langley Research Center: VGH recorder and VG recorder.
 National Science Foundation: paper airplane hand-folded by Senator Jake Garn.
 Mr. Raymond Nelson: air mail container.
 O'Neal & Prella Advertising: model of Leonardo da Vinci's one-man flying machine.
 Mr. John J. Olson: 2 paintings, Early Space Shuttle Concept and Lunar Scene, by John J. Olson.
 Mr. Bill Palmer: Montgolfier balloon pin.
 Mrs. Jefferson Patterson: flying clothing.
 Mr. Arthur B. Perry and Naodi Perry: painting, 101st Air Refueling Wing, Bangor, Maine, by Naima Rauam.
 Ms. Marguerite Pinkerton: 2 letters from Charles Lindbergh to Richard Kuyl.
 Don F. Pratt Museum, (through Charles Cureton): German World War II electrically heated winter flying suit.
 Mr. Larry and Mrs. Jamie Pye: diorama with Douglas model aircraft.
 Mr. Bob Resley: painting, Mustery S, by Bob Resley.
 Mr. George Rhetts: identification tag.
 Rockwell International: tires from STS-1 Space Shuttle.
 Mr. and Mrs. Frank Rogers: flying suit worn by Gen. Chuck Yeager.
 M. Sgt. Russell E. Sackreiter, USAF (Ret.): 1 pair high-top service shoes and U.S. Air Force khaki shorts, World War II.
 Mr. John Safer: National Air and Space Museum Trophy.
 Maj. Francis N. Satterlee, USAF (Ret.): World War II GI service shoes.
 Mr. William B. Saunders: 2 heavy gauge main aircraft wheels.
 Mr. Fred Scarf: 5 plasma ware instruments.
 Mr. Joseph A. Sirkis: civilian flying goggles.
 M. Sgt. Victor H. Smith, USAF (Ret.): 1 pair high-top service shoes, World War II.
 Mr. Richard K. Smith: first-day issue philatelic cover commemorating Alfred Verville.

Smithsonian Astrophysical Observatory: 2 antennas.
 Ms. Rosemary Soubiran: fabric from a Lafayette Escadrille aircraft.
 Maj. Merle D. Spence, USAF (Ret.): aircraft parts and instruments.
 Mr. Vincent R. Sprouls: medal.
 Ms. Wendy Stehling: painting, Afterglow, by Naima Rauam.
 Mr. Marty Steiner: tokens from Junkers Aircraft Factory.
 Ms. Monica Steinhoff: bust of Werner von Braun by Monica Steinhoff.
 Mr. James L. Sunstein: World War II Japanese aircraft instruments.
 Mr. C. G. Sweeting: air gunner sleeve insignia.
 Mr. Bob Tabler: 2 radio receivers, radio indicator, radar receiver indicator, and radio inverter.
 U.S. Air Force, Wright Patterson: 6-cylinder aircraft engine.
 U.S. Army (through the Maryland National Guard): Bell UH-1M Huey helicopter.
 U.S. Army, Fort Campbell: aircraft engine, Pratt and Whitney R-985.
 U.S. Army, Natick Research and Development Center: 2 armor helmets, neck armor, and groin armor.
 U.S. Army, Red River Army Depot: 2 machine guns.
 U.S. Marine Corps Museum: 2 Hartzell propellers, World War I balloon basket, 2 aircraft drones, and drone control equipment.
 Mr. Mark Waki: painting, Portrait of a DC-3, by Mark Waki.
 Ms. Wilma Wethington: painting, Threatening Weather, But the Mail Must Go Through, by Wilma Wethington.
 Col. Byron E. White, USAF (Ret.): navigational watch.
 Mr. Gordon White: triode vacuum tube.
 Capt. Carman Woodley, USAF: Soviet SA-2 missile.
 Mr. W. Woolner: recognition slide projector.

Donors to the Records Management Division

Mr. David Baron: 56 photographs of Royal Navy and Israeli War of Independence.
 Mr. Frederick Beatley: 27 postcards of German Airship LZ-1 Graf Zeppelin and 19 photographs of German Dornier Aircraft.
 Mr. Warren Bodie: 85 prints and negatives of miscellaneous aircraft.
 Mr. Walter J. Boyne: 977 black and white and color photographs and negatives of the McDonnell Douglas F-4, and 622 photographs of the Boeing B-52, with supporting documentation.
 Mr. Gary Brounstein: 344 prints of miscellaneous aircraft.
 Mr. R. Burgess: 45 photographs of miscellaneous aircraft taken at Croydon Aerodrome.
 Mr. Ira Chart (Northrop Corporation): 3 color photographs, 12 black and white photographs, and a brochure on the F-20 Tigershark.
 Ms. Carol Cronin: one brochure, photograph, and pilots wings from Wings West Airlines.
 Mr. Steve Detch: Northrop Alpha construction prints (1 cubic foot).
 Mr. George Dillman: 12 photographs of B-26, including "Flakbait."
 Mrs. Gisela Enchelmayer: film, photographs, clippings, and personal papers of Willibald Seybelt.
 Mr. David Farer: 85 photographs of Israeli War of Independence.
 Mr. Allan Katzberg: publication on radiobiologic experiment in Discovery XVII.
 Mr. Robert J. Lannen: 40 photographs of World War I airplanes.
 U.S. Air Force: 453 Korean War color slides.
 U.S. Air Force Museum: plans for the 1905 Wright Flyer III.

NATIONAL MUSEUM OF NATURAL HISTORY

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Donors to the National Collections

INSTITUTIONAL

Aahas Univ., Sweden: 80 plants (365785, exchange).
Academia Sinica, China: 2 plants (362032); 2 wasps (365138, exchange).
Academy of Sciences, Czechoslovakia: 125 plants (364562).
Academy of Sciences, Poland: 1 plant (364622, exchange).
Academy of Sciences, U.S.S.R.: 21 assorted mammals (353638, exchange); 3 weevils (365570).
Adelaide, Univ. of, Australia: 35 marine algae (363135, exchange).
Agricultural Institute, China: 1 plant (360897).
Agriculture, U. S. Department of: 331 plants (359644, 361976, 361997, 363556, 363569, 365674); 5,077 insects (365544, 365564, 367078, 367079).
Alabama, Univ. of: Herbarium: 5 plants (364648).
Alberta, Univ. of, Canada: 200 plants (359704, exchange).
American Museum of Natural History: 2 fishes (357278); 4 birds (358562); 1 bird skin (364060, exchange); 5 fossil mammal casts (361143, exchange); 3 plant bugs (363960, exchange).
American Univ.: 9 echinoderms (322436).
Aquatic Environments Limited, Canada: 2,945 crustaceans, 120 echinoderms (357661).
Arizona, Univ. of: 29 echinoderms (294745, 366449); 1 plant (362036); 510 plants (364627, exchange).
Assiut Univ., Egypt: 16 crustaceans (348560).
Auburn Univ.: 2 echinoderms (359814); Herbarium: 806 plants (363486).
Australian Museum, Australia: 19 fishes (338537, 355082, 363843); 2 fishes (357227, exchange); 1 meteorite (359363, exchange); 24 worms (363796, 365396).
Balcones Research Center: 2 fossil casts (361150); 22 fossil mammal casts (364372, exchange).
Baltimore National Aquarium: 1 dolphin (364864).
Baltimore Zoo: 1 ground squirrel (360567).
Barry A. Vittor and Associates: 149 worms (365996).
Bayer Staatssammlung fur Palaontologie U. Historische Geologie, Germany: 4 fossil skull casts (361198, exchange).
Bereich Botanik und Aboretum Museum fur Naturkunda, Germany: 45 plant slides (347561, exchange).
Bermuda Biological Station, Bermuda: 821 crustaceans (325158, 346417, 351962, 352284); 16 echinoderms (352284, 364310); 1 fish (364310).
Bernice P. Bishop Museum: 6 plants (359659, exchange); 7 crustaceans (358541); 296 corals (346950, 361138, 361637); 6 fishes (356327, 361457, 362563, 362574, 363872, 365287, exchanges).
Bioligacas Marie del Piler Reyes Barragan, Mexico: 43 worms (361669).
Biologische Station Lunz, Australia: 24 sponges (359521).
Biosystematics Research Institute, Canada: 2 insects (365559).
Black Hills Institute of Geological Research: 6 fossils (359190).
Bochum, University of, Germany: 6 sponges (359519).

Boston Univ.: 113 corals (258822, 274378, 4 mollusks (353523)).
 Botanical Museum Herbarium, Denmark: 1 plant (359706, exchange).
 Botanical Research Institute, South Africa: 507 plants (363557, 361886, 362075, exchange); 9 photographs of plants (360884).
 Botanisches Museum Berlin-Dahlem, Germany: 329 plants (363206, 363596, exchanges).
 Brigham Young Univ.: Monte L. Bean Life Science Museum: 230 plants (364634, exchange); 2 plants (361980).
 British Columbia, Univ. of, Canada: 73 plants (361900, 363470).
 British Museum (Natural History), England: 239 plants (359643, 359713, 364724, exchanges); 1 insect (361676, exchange); 2 fossils (361577, 362514, exchanges); 2 fossil casts (362798); 2 stylasterines (352304, exchange).
 Calicut, Univ. of, India: 28 plants (363476).
 Calcutta, Univ. of, India: 15 crustaceans (349043).
 California Academy of Sciences: 4 plants (363512); 39 fishes (337116, 361466, 362539, 365329).
 California, State of: Department of Fish and Game: 5 echinoderms (243747); Department of Food and Agriculture: 596 sap beetles (365554).
 California Jungle Gardens: 3 caridean shrimps (361565).
 California State Univ.: 32 echinoderms (324196).
 California, Univ. of: 657 plants (359715, 360764, 364633, exchanges); 759 plants (360747, 360887); 6 crustaceans (362512); 5 echinoderms (318087); 4 insects (365561); 90 worms (363255); Scripps Institute of Oceanography: 1 crustacean (361125); 11 echinoderms (324261, 343249); 118 fishes (325036, exchange); 2 fishes (361480); 3,170 fossil slides (363248); 8 worms (336922, 366115).
 Cambridge, Univ. of, England: 1 fossil cast (359451).
 Canada Geological Survey, Canada: 1 mineral (361787); 6 fossils (363249).
 Canberra Botanic Gardens, Australia: 71 plants (365817, exchange).
 Canfield Fund: 28 minerals (363930, 362930, 362939, 363379, 363382, 363394, 363397, 363398).
 Carnegie Museum of Natural History: 1 fossil wolf cast (362492, exchange).
 Centre Orstom de Noumea, New Caledonia: 11 plants (360860).
 Chamberlain Fund: 1 mineral (362899); See also Mineral Fund (362904).
 Colegio de Postgraduados, Mexico: 1 plant (363499).
 Colorado, Univ. of: Museum: 39 plants (361945, exchange).
 Columbia, Univ. of: Lamont-Doherty Geological Observatory: 33 echinoderms (347716, 356470).
 Comissao Executiva Do Plano Da Lavoura Cacaueira, Brazil: 9 insects (367030).
 Commerce, U. S. Department of: National Oceanic and Atmospheric Administration: 42 crustaceans (306445); 20 holothurians (356495); 1,027 ascidians and asteroids (357890); 6 gorgonian (324686); 4 mollusks (364549); 1 fish (314432); 1 beaked whale (364880).
 Commonwealth Institute of Biological Control, India: 100 armored scales (362850).
 Commonwealth Scientific and Industrial Organization, Australia: 3 slides of echinoderm (359450).

Connecticut, Univ. of: 192 plants (351227, 359700, 364576, exchanges); 16 plants (365767).
 Consejo Superior de Investigaciones Cientificas, Spain: 45 fishes (353917, exchange).
 Conservatoire et Jardin Botaniques de Laville de Geneve, Switzerland: 28 plants (365664); 36 plants (364565, exchange).
 Cornell Univ.: 110 corals (245674, 342628); 17 insects (366975); Liberty Hyde Bailey Hortorium Herbarium: 147 plants (362029, 363574, 363617, 363629, exchanges).
 Crown Prince's Household, Japan: 1 fish (365311).
 Cureton Mineral Company: 1 mineral (357572, exchange).
 Dalhousie Univ., Canada: 34 insects (346014).
 Dames and Moore: 15 crustaceans (352959, 356878).
 Dauphin Island Sea Laboratory: 10 echinoderms (321867).
 David Shannon Minerals: 2 minerals (361095).
 Defense, U. S. Department of: Department of the Army: 156 carpet beetles and biting midges (365152, 365565, 365572); Department of the Navy: 92 echinoderms (248236, 359829, 363701); 16 echinoderms (248236, 359829); 16 echinoderms, 1 mollusk, 1 worm (363787); Marine Corps: 1 fossil tooth (366273).
 Department of Scientific and Industrial Research, New Zealand: 2 weevils (353993, exchange); 2 seed feeding bugs (363962).
 Desert Botanical Garden: 130 agaves (360754).
 Discovery Bay Marine Laboratory, Jamaica: 1 echinoderm (336917); 2 crustaceans (359184).
 Duke Univ. Herbarium: 118 plants (363599, exchange); 8 plants (365673, 365678); Marine Laboratory: 17 anemones (242630); 2 corals (247810); 2 holothurians (295023); 3 asteroids (361822).
 East African Herbarium, East Africa: 1 plant (360755, exchange).
 Empresa Pernambucana de Pesquisa, Brazil: 1 plant (364743).
 Escuela Nacional de Ciencias Biologicas, Mexico: 49 plants (359702, exchange).
 Estacion Biologica Charles Darwin, Ecuador: 11 echinoderms (313183).
 Ewha Woman's Univ., Korea: 1 plant (363143).
 Field Museum of Natural History: 212 plants (361985, 363138, 364628, exchanges); 169 plants (360867, 361985, 363138, 363201, 364628, 365697); 40 crustaceans (363128); 103 fishes (285331, 362538, exchanges); 2 fossil casts (361151, 363690, exchanges).
 Florida Atlantic Univ.: 15 plants (362037).
 Florida, State of: Department of Agriculture: 7 dragonflies (365507, exchange); Department of Environmental Regulation: 1 worm (366098); Department of Natural Resources: 16 echinoderms (364837); 7 worms and 1 worm slide (362671, 365345, 366089).
 Florida, Univ. of: 51 echinoderms and 4 slides (231171, 345764, 348470); 16 crustaceans (362477); Florida State Museum: 3 crustaceans (361602); Vascular Plant Herbarium: 14 plants (360894, 363561, 363562).
 Forest Herbarium, Thailand: 54 plants (364736, exchange).
 Forschungsinstitut Senckenberg, Germany: 7 insects (365539, exchange).
 Fundacao Universidade Brasilia, Brazil: 862 plants (361891).
 Georgia Conservancy: 1 crustacean (360711).
 Georgia Southern College Herbarium: 1 plant (363500).
 Georgia, Univ. of: 2 ferns (363203).

Goteborg, Univ. of, Sweden: 83 plants (359710, exchange); 14 plants (360906, 361934).
 Grice Marine Biological Laboratory: 11 crayfishes (363712).
 Guam, Univ. of, Guam: 26 fishes, 21 echinoderms, 3 worms (359474); Marine Laboratory: 51 echinoderms (325059, 328174).
 Gulf Coast Research Laboratory: 28 echinoderms (231457, 239394); 31 crustaceans (361398, 362478, 363123); Museum: 242 crustaceans, 2 echinoderms, 3 worms (361564).
 Harbor Branch Foundation, Inc.: 21 crustaceans (362196).
 Harvard Univ.: Arnold Arboretum: 1 plant (365682); Gray Herbarium: 79 plants (363205, 364630); 1,968 plants (359697, 360908, 363205, 363224, 364630, 364632, 363588, exchanges); Museum of Comparative Zoology: 24 echinoderms (356570, 356676, exchanges); 2 spiders (362839); 3 fishes (365309): 263 worms (365521).
 Haskins Laboratories: 19 echinoderms (260769).
 Hawaii Institute of Marine Biology: 2,227 fishes (363838).
 Hawaii, Univ. of: 177 flies (365575).
 Helsinki, Univ. of, Finland: Herbarium: 25 plants (361890).
 Herbario Albert Castellanos, Brazil: 23 plants (363220); 23 plants (363475, exchange).
 Herbario Centro de Pesquisas de Caucau, Brazil: 310 plants (360909, 362026, 364661).
 Herbario da Reserva Ecologia do Instituto Brasileiro de Geografia e Estatista, Brazil: 51 plants (361882).
 Herbario Dr. Victor Manuel Ovalles, Venezuela: 87 plants (360921): 125 plants (364709, exchange).
 Herbario Museu Botanico Municipal, Brazil: 500 plants (363545).
 Herbario Nacional de Mexico, Mexico: 11 plants (361963).
 Herbario Universitario, Venezuela: 129 plants (360842, 363627, 363664).
 Herbier National du Cameroun, Cameroun: 5 plants (363644).
 Herbarium Bradeanum, Brazil: 1 plant (365836).
 Hillman Fund: 12 minerals (358364).
 Hokkaido Univ. of, Japan: 26 fishes (357272); 5 insects (365566).
 Hopkins Marine Station: 9 algae (363471).
 Houston, Univ. of: 95 crustaceans and 102 crustacean slides (362191).
 Howard Minerals: 11 minerals (359932, exchange).
 Hubbs Marine Research Institute: 10 bird skins (364039).
 Humboldt State Univ.: 1 plant (363487).
 Hungarian Natural History Museum, Hungary: 7 brachiopods (361570, exchange).
 Huntsman Marine Laboratory, Canada: 2 fishes (361481).
 Ichthyological Laboratory, China: 6 fishes (337624, exchange).
 Illinois, State of: Natural History Survey Division: 21 crustaceans (360381).
 Indian Cancer Research Centre, India: 3 anemones (253015).
 Indian River Coastal Zone Study Reference Museum: 89 crustaceans (358540, 363945); 9 corals (356952); 12 asteroids (365199).
 Institut D'Estudis Ilerdencs de la Diputacio Provincial de Lleida, Spain: 1 plant (361982).
 Institut fur Allgemeine Biologie der Universitate Wien, Austria: 110 crustaceans (360068, exchange).
 Institut fur Allgemeine Botanik, Germany: 1 plant (363620).

Institut fur Botanik und Botanischer Garten der Universitat, Austria: 12 plants (360725, exchange); 22 plants (360725, 364649).

Institute for Development of Pacific Natural Resources, Japan: 24 octocorals (344114).

Institute of Biology, Roumania: 75 crustaceans (361561).

Institute of Marine Sciences, Trinidad and Tabago: 2 crustaceans (361015).

Institute of Oceanographic Sciences, England: 2 fishes (361479).

Institute of Parasitic Diseases, China: 4 insects (363974).

Institute for Systematic Botany, The Netherlands: 45 plants (361935, 364567, 364650); 267 plants (361905, 361935, 361943, 363553, 364567, 364650, exchanges).

Instituto Botanico, Venezuela: 1,172 plants (363559, 364664).

Instituto Botanico A. J. Cavanilles, Spain: 57 plants (359699).

Instituto de Botanica Darwinion, Argentina: Herbarium: 4 plants (363575).

Instituto De Investigaciones Oceanologicas, Chile: 2 crustaceans (362677).

Instituto di Ricerche sulla Pesca Marittima, Italy: 1 crustacean (363023).

Instituto Nacional de Pesquisas de Amazonia, Brazil: 13 plants (362034); 4 fishes (361461, exchange); 5 fishes (366203).

Instituto Oceanografico Universidad de Oriente, Venezuela: 13 echinoderms (361700, exchange).

Instituto Veterinario de Investigaciones, Peru: 385 fishes (365243, exchange).

Interior, U. S. Department of: Bureau of Land Management: 6,600 echinoderms (339841, 359235); 94 fishes (348038); 100 crustaceans (356512); 9 worms (364005); Fish and Wildlife Service: 5,650 echinoderms (240182, 254880, 261291, 273551); 159 amphibian and reptiles, 2 snakes (358012, 358027, 362157, 362158, 362721); 88 birds (360440, 362354); 18 manatees, 1 whale (360565); 17 worms (362760, 365637); 32 insects (367058); Geological Survey: 2 plants (360904); 21 echinoderms (359477, 360700); 7 minerals (356833, 361741, 362908, 362969); 87 basalts, quartzs, volcanic ashes and 29 thin sections (361783, 364224, 364226); 1 fish (361444); 14 fossil thin sections, 50 sharks teeth, 1,079 fossil slides, 883 fossils (359424, 361277, 361569, 361859, 361881, 362223, 362282, 362311, 362448, 362500, 362638, 362639, 363717, 363726, 363727, 363833, 364003, 364528, 364530, 364777, 364988, 365022, 365853, 366281, 366298).

INVEMAR, Columbia S.A.: 16 echinoderms (334541, 356623).

Jacksonville, Univ. of : 3 crayfishes (360686).

James Cook Univ. of North Queensland, Australia: 12 marine algae (363134, exchange).

Jardin Botanico, Spain: 2 photographs of plants (361937).

Jardin Botanico de Maracaibo, Venezuela: 693 plants (361991, 362013).

Jardin Botanico de Rio de Janeiro, Brazil: 82 plants (360893, 363199, 363213, 363216, 364675).

Jardin Botanico Nacional, Dominican Republic: 577 plants (361902, 363584, 364624, exchanges); 24 plants (364624, 364642).

Jardin Botanique National de Belgique, Belgium: 1 plant (364585).

Jewel Tunnel Imports: 1 mineral (364284).

Juniata College: 59 crustaceans (362494).

Justus Liebig Univ., Germany: 14 plants (365684).
 Kagoshima Univ., Japan: 1 crustacean (362487).
 Kansas, Univ. of: 6 bird skeletons (358590, exchange); 7 fishes (360171); 71 plants (361889).
 Karl-Franzens-Universitat GRAZ, Austria: 4 lichens (364731).
 Kent State Univ.: 1 crab (363694).
 Kumamoto Univ., Japan: 65 crustaceans (361223).
 Kuwait, Univ. of, Kuwait: 4 fishes (363864, exchange).
 Kyoto Univ., Japan: 10 octocorals (209648).
 Laboratorium voor Nematologie, The Netherlands: 3 nematode slides (360944).
 Landesanstalt fur Gewasserkunde und Gwasserschutz Nordrhein Westfalen, West Germany: 5 crustaceans (364376).
 Ljubljana, Univ. of, Yugoslavia: 7 crustaceans (353169).
 Longwood Gardens: 2 plants (363581, 364638).
 Los Angeles County Museum of Natural History: 4 fishes (324961, 361436, exchanges); 85 plants (362020, 363578).
 Louisville, Univ. of: 397 crustaceans (348440, 361813).
 Louisiana State Univ.: College of Arts and Sciences: 4 echinoderms (320516, 356471); Medical Center: 6 protozoan slides (356471); School of Forestry and Wildlife Management: 10 crustaceans (363055).
 Lyman House Museum: 2 basalts (364225).
 Lyndon State College: 32 ferns (361940).
 Malaya, Univ. of, Malaya: 202 echinoderms (307146).
 Marie Selby Botanical Gardens: 16 plants (360917, 363552, 363645, exchanges); 1 plant (360917).
 Marine Animal Productions: Pygmy Sperm Whale (360566).
 Marine Research Foundation: 22 echinoderms (363129).
 Maryland, Univ. of: 1 coral (352332); 5 vials, 9 crustaceans (361615, 364500).
 McDaniel Photography: 1 coral (358060).
 McGill Univ. Redpath Museum, Canada: 2 echinoderms (356901).
 McNeese State Univ.: 3 echinoderms (347039).
 Memorial Univ. of Newfoundland, Canada: 24 ophiuroids and asteroids (350501).
 Miami Univ.: 22 plants (360918, 364679, 364703).
 Miami, Univ.: Rosenstiel School of Marine and Atmospheric Science: 623 echinoderms (359185, 336863, 323036, 354501, 359889); 26 fishes (219416, 256534); 1 manatee (364883).
 Michigan, Univ. of: Herbarium: 42 plants 360746, 363133, 363490, 363650, 365831); Museum of Zoology: 39 fishes (337428, 361470, 362575); 20 bats (357358).
 Micronesia, Dept. of Resources & Development, Caroline Islands: 17 fishes (363851).
 Mid-Pacific Marine Lab., Marshall Islands: 21 echinoderms (326939).
 Milwaukee Public Museum: 2 plants (360832).
 Mineral Fund, Smithsonian Institution: 63 minerals (355966, 358439, 360028, 361784, 362904, 362905, 363395, 363396, 364231, 364232, 364254).
 Ministere de L'Education Nationale, France: 50 crustaceans (358931).
 Ministry of Energy and Mineral Resources, Fiji: 20 pumices (359310).

Missouri Botanical Garden Herbarium: 1,401 plants (360899, 360911, 361950, 361977, 363183, 363187, 363195, 363502, 363621, 364569, 364637, 364685, 365749, 365652, 365653, 365654, 365655, 365656); 652 plants (361950, 363601, 364587, 364626, 365657, 365658, exchanges).
 Montana, Univ. of: 12 plants (364561).
 Montana State Univ.: 8 sponges (348505).
 Morton Aboretum: 19 plants (363539).
 Moscow Lomonosov State Univ., U.S.S.R.: Zoological Museum: 1 mammal (360539).
 Moss Landing Marine Laboratories: 248 coelenterates and 50 echinoderms (332157).
 Mote Marine Laboratory: 3 sponges (361638); 185 worms (362446, 364195, 365184).
 Museo Argentina de Ciencias Naturales "Bernardino Rivadavia", Argentina: 4 plants (360836).
 Museo Civico di Storia Naturale, Italy: 7 fishes (363862, exchange).
 Museo Nacional de Historia Natural, Chile: 47 insects (365134, exchange).
 Museu Anchieta, Brazil: 6 fishes (363879, exchange).
 Museu Botanico Municipal, Brazil: 276 plants and 9 bamboos (360861, 362917, 363171, 363511, 365681); 40 plants (364727, exchange).
 Museu de Ciencias da Pucrgs, Brazil: 62 fishes (363880, exchange).
 Museu Nacional, Brazil: 4 fishes (361464, exchange).
 Museu Paraense Goeldi Herbario, Brazil: 83 phanerogams (363537).
 Museum National D'Histoire Naturelle, France: 247 plants (359685, 360889, 363587, exchanges); 12 fishes (297117, 363866, exchanges); 2 fishes (362560, 365298); 2 mollusks (360973); 10 fossil mammal casts (359763, exchange).
 Museum of Natural History, Bulgaria: 58 fishes (360166, exchange).
 Mystic Marinelife Aquarium: hooded seal (364863).
 Nacional de Costa Rica Herbario: Museo Nacional, Costa Rica: 1 plant (364735).
 Natal, Univ. of, South Africa: 7 phanerogams (363583).
 National Aeronautics and Space Administration: 561 minerals (363897).
 National History Institute: National Science Museum, Japan: cast of an aghorophus skull (364759, exchange).
 National Institute of Amazonian Research, Brazil: 17 fishes (361462, exchange).
 National Museum of Natural Sciences, Canada: 373 plants (361885, 361888, exchanges).
 National Museum of New Zealand, New Zealand: 11 echinoderms (323845, 356739); 3 fishes (365244); 2 fossil penguins (363732).
 National Museum of Victoria, Australia: 4 sponge fragments (361636); cast of a dinosaurs maxilla (361258).
 National Science Foundation: 42 trilobites (364826).
 National Science Museum, Japan: 50 plants (360766, exchange); cast of a fossil porpoise skull and 6 fossil mammal casts (365360, 366326, exchanges).
 National Taiwan Univ., China: 1 fish (361441).
 National Univ. of Singapore, Singapore: 7 crustaceans (360664).
 New England Aquarium: 10 marine mammals (360552).
 New Hebrides Condominium Geological Survey, New Hebrides: 6 echinoderms (315765).
 New Mexico State Univ.: 4 plants (363174, 364617); 13 ants (365569)

New York Botanical Garden Herbarium: 3,507 plants (359684, 361996, 363568, 364596, exchanges); 446 plants (363568, 364596, 361996, 362074, 363178, 364694).

New York, State of: Office of Public Health: 26 crustaceans (363825).

New York State Univ.: Harpur College: 1 sponge (198013); State Museum: 100 corals (201007, exchange); 4 corals (318116).

New Zealand Geological Survey, New Zealand: 11 fossil slides (360722).

New Zealand Oceanographic Institute, New Zealand: 50 hard corals (248155).

North Carolina, State of: Department of Natural Resources: 1 fish (365274); State Museum: 33 fishes (362579); bird trunk (364017).

North Carolina, Univ. of: 48 echinoderms (332562, 338788); 3 fishes (361453); 2,056 fishes (365327, exchange).

North Carolina State Univ.: School of Physical and Mathematical Sciences: 1 echinoderm (360319).

Northeast Louisiana Univ. Herbarium: 172 plants (360882).

Northern Kentucky Univ.: 1 plant (361989).

Northern Virginia Mineral Club: 1 mineral (362935).

Office De La Recherche Scientifique Et Technique Outre-mer, French Guiana: 169 phanerogams (362021).

Office de la Recherche Scientifique et Technique Outre Mer Herbaria, Bolivia: 54 phanerogams (363525).

Ohio, Univ. of: 1,061 fossils (364001).

Ohio State Univ.: 275 plants (363538, exchange); Herbarium: 1 plant (363580); 4 sap beetles (365164).

Oil Pollution Research Unit, England: 9 crustaceans (360042).

Oklahoma, Univ. of: 70 sponges, 2 soft corals (335984, 344052, 349441, 359830, 364965); Robert Bebb Herbarium: 1 plant (362080).

Old Dominion Univ.: 1 sponge, 1 stylasterid, (364496); 1 worm (366144).

Oregon, Univ. of: 7 fossil fishes (363718); Institute of Marine Biology: 5 octocorals (355185); 6 crustaceans (362476); School of Oceanography: 11 asteroids (354129).

Oregon State Univ.: 1 fish (362623); Herbarium: 1 plant (364663).

Osborn Laboratories of Marine Sciences: 1 protozoan slide (357659).

Oslo, Univ. of, Norway: 5 worms (361628, exchange).

Osmania Univ., India: 13 insects (362836).

Otago, Univ. of, New Zealand: 1 protozoan slide (360120).

Pacific Bio-Marine Supply Company: 1 sponge (268291).

Palomar College: 3 echinoderms (307637).

Pennsylvania, Univ. of: 20 echinoderms (335248).

Pennsylvania State Univ.: School of Forest Resources: 12 fishes (361531, 365300, exchanges).

Philadelphia Academy of Natural Sciences: 5 fishes (356333, 363855, exchanges); 2 fishes (359030); 64 crustaceans (355995); 1 bird skin (362396, exchange).

Pontificia Universidad Catolica del Ecuador, Ecuador: 107 plants (359626, 363189, 363202).

Princeton, Univ. of: 3 casts of fossil reptile remains (365599, exchange).

Projeto Radambrasil Herbario, Brazil: 32 phanerogams (363536).

Provincetown Center for Coastal Studies: 1 bottlenose dolphin (364872).
 Publications and Information Directorate, CSIR, India: 1 plant (363153).
 Puerto Rico, Department of Natural Resources: 191 ferns (363555, exchange); 1 plant (360896).
 Puerto Rico, Univ. of: 5 anemones and phoronids (244778); 199 marine algae (360901, 363136).
 Purdue Univ.: 260 small mammals (360569).
 Queensland Museum, Australia: 4 fishes (365261).
 QLM Laboratories, Inc.: holothurians (307487).
 Rama de Botanica: Herbario-Hortorium, Mexico: 1 plant (363505).
 Rancho Santa Ana Botanic Garden: 53 phanerogams (361895, exchange).
 Rhodes Univ.: J.L.B. Smith Institute of Ichthyology, South Africa: 8 fishes (332330, 363885, 363905); 3 fishes (365305, exchange).
 Rijksmuseum van Natuurlijke Histoire, The Netherlands: 4 sea anemones (326667); 47 sawflies (364515, exchange).
 Rocky Mountain Herbarium: 13 plants (362018); 52 plants (362018, exchange).
 Roebling Fund, Smithsonian Institution: 82 minerals (359309, 359330, 360031, 361039, 361067, 361715, 361726, 361779, 361803, 362884, 362948, 362963, 362980, 363349, 363380, 363393, 363409, 365914); 358364 (See also Hillman Fund).
 Roland W. Brown Fund, Smithsonian Institution: 31 ambers containing fossil insects and plant parts (359163); a cycadeoid trunk (364987); 1 fossil wood (364755).
 Royal Botanic Gardens, Australia: 130 misc. plants (363598, 364671, exchanges).
 Royal Botanic Gardens, England: 378 plants (360751, 363208, 363570, 363630, exchanges); 17 plants (360761, 362078).
 Royal Botanic Garden, Scotland: 11 photographs of plants and 7 plants (360753, 360762, 360892).
 Royal Botanic Gardens: National Herbarium, Sri Lanka: 6 bamboos (361992).
 Royal Netherlands Meteorological Institute, The Netherlands: pumices (362894).
 Royal Ontario Museum, Canada: 5 fishes (362576, 365241, exchanges); 25 caddisflies (367062).
 Ryksherbarium, The Netherlands: 238 plants (363196, exchange).
 Ryukyus, Univ. of, Japan: 18 caridean shrimps (362294); 6 insects (362814).
 San Carlos, Univ. of, Philippines: 9 sponges (343472).
 San Diego Natural History Museum: 2 bird skeletons (358570, exchange); 33 caddisflies and 3 fishflies (365537).
 San Diego Zoo: 5 mammals (360571).
 San Francisco State Univ.: 1 plant (361990).
 Santa Barbara Museum of Natural History: 1 ascidian (277652); 5 mollusks (364116).
 Secao Artropodos Reconhentos, Brazil: 1 spider (363968).
 Shinshu Univ., Japan: 4 fishes (362552).
 Skidaway Institute of Oceanography: 2 starfishes (313776).

Smithsonian Institution (see the following funds: Canfield, Chamberlain, Hillman, Mineral, Roebling, Roland W. Brown, Springer, Stuart, and Walcott): National Museum of Natural History: Collected: 153 echinoderms, North America, Dr. Frederick M. Bayer (231965, 347966); 86 birds and 20 mammals, India, Bruce M. Beehler (355770); 700 fossil and recent bones, Dr. A. K. Behrensmeyer (362221); 700 mammals, 58 amphibians and reptiles, Sierra Leone, Dr. Michael D. Carleton (357344); 5,000 misc. invertebrates and 156 crustaceans, North Western Atlantic Ocean and North America, Dr. Robert S. Carney (332965, 352305); 8 echinoderms, New Guinea, C. Allan Child (341155); 3 brachiopods, Antarctica, Dan Chaney (366279); 1 coral, Jamaica, Elizabeth Chornesky (362531); 10 echinoderms, Belize, Timothy E. Coffey (349206); 5 polychaetes, Dr. G. Kent Colbath (361378); 23,984 misc. insects and arthropods, India, Venezuela, Dr. Don R. Davis (365155, 367059); 32 bamboos, Dave Edelman (364590, 364715); 4 fossil reptiles, North America, Richard Eftim (365471); 19 mollusks, Diego Garcia Islands, Cdr. Robert E. Elster (361005); 29 amphibians and reptiles, Peru, French Guiana, Louise H. Emmons (362688, 362689); 1,100 fossil plants and vertebrates, North America, Dr. Robert J. Emry (361620, 363748); 533 plants, Africa, Dr. Robert Faden (361925); 16 rocks, 1,214 plants, Venezuela, Dr. Vicki Funk (359934, 362040, 364690); 200 mollusks, North America, Mrs. Raye Germon (362255); 134 fishes, Bahamas, Dr. Robert H. Gibbs, Jr. (363870); 238 crustaceans, 1,173 crustacean slides, Dr. Robert H. Gore (356533); 50 mollusks, Bahamas, Dr. C. W. Hart, Jr. (358266); 7 amphibians and reptiles, Venezuela, John B. Heppner (350404); 87 amphibians and reptiles, Brazil, Dr. W. Ronald Heyer (362718); 3,613 crustaceans, 1,450 worms, North America, Newfoundland, China, Dr. Robert P. Higgins (347428, 349482, 361668, 362444, 365512); 21 birds, Jamaica, Bill Hilgartner (360429); 400 worms, North America, Isles of Scilly, Dr. W. Duane Hope (362277, 363033, 365340); 2,143 mollusks, 3 fossils, 9 echinoderms, 1 worm, North America, Australia, Belize, Dr. Richard Houbrecht (356679, 360320, 361849, 363946, 365498); 59 birds, Trinidad, Dr. Peter Houde (360433); 180 crustaceans, 169 mollusks, 6 echinoderms, North America, Bermuda, Dr. Meredith L. Jones (351556, 355730, 360675); 145 fossils, 1 asteroid, 2 fishes, 100 worms, Seychelles, Dr. Brian F. Kensley (355515, 360082); 8 echinoids, North America, Dr. Porter M. Kier (358235); 50 echinoderms, New Caledonia, Cathy Lamb (337316); 84 echinoderms, North America, Ronald J. Larson (332888); 300 fossil vertebrates, North America, Lloyd Logan (364004); 1 spider, Venezuela, Dr. Jerry Louton (367057); 1,186 crustaceans, 201 echinoderms, Japan, North America, Dr. Raymond B. Manning (359409, 361134); 107 crustaceans, North America, Dr. Raymond B. Manning and Woody Lee (355577); 42 sea anemones and echinoderms, Ascension Island, Dr. Raymond B. Manning, Dr. Meredith L. Jones, Dr. David L. Pawson, Dr. Joseph R. Rosewater and Dr. Anthony J. Provenzano, Jr. (323014); 2,821 insects, Mexico, Dr. Wayne N. Mathis (367081); 11 volcanic rocks, North America, Dr. William G. Melson (362956); 3 blocks of limestone containing fossil seagrass, North America, Gary S. Morgan (361362); 2 sponges, China, Jim Norris (356869); 25 sea urchins, 2 bird skeletons, 34 prairie chickens, South Atlantic Ocean, North America, Bermuda, Dr. Storrs Olson (318271, 362331,

Smithsonian (cont'd)

360416); 20 holothurians, Puerto Rico, Dr. David L. Pawson (361697); 8 worms, Antarctica, Charles W. Potter (363467); 72 fossil vertebrates, North America, Dr. Clayton E. Ray (363235); 50 phanerogams, Panama, Dr. Robert Read (363592); 97 birds, 12 mammals, 18 fishes, India, Dr. S. D. Ripley (362364); 4 minerals, North America, Timothy Rose (365082); 50 amphibians and reptiles, North America, Charles A. Ross (358619); 51 sponges and octocorals, 40 slides of sponges, North America, Bermuda, Dr. Klaus Ruetzler (346420, 365629); 1 echinoid, Rangiroa Atoll, M.H. Sachet (357619); 939 plants, Russia, Dr. Stanwyn Shetler (360883, 363622); 250 plants, Peru, Dr. Steve Smith (364666); 600 worms, Guam, Myriam Smythe (362445); 2 bamboos, India, Dr. Thomas Soderstrom (357704); 66,177 insects and arthropods, Cuba, Mexico, Dominican Republic, Venezuela, Dr. Paul J. Spangler (366282, 366996, 366997, 367080); 19 crustaceans, 398 fishes, Seychelles, Dr. Victor G. Springer (356342); 1 rat, Indonesia, Dr. Paul M. Taylor (355782); 9,390 fishes, 413 crustaceans, 111 insects, 1 mollusk, 6 amphibians, Venezuela, Peru, Dr. Richard P. Vari (351119, 353910, 359102); bulk fossil samples, New Hebrides, Fiji, Dr. Thomas Waller (310434); 124 fishes, Brazil, Dr. Stanley H. Weitzman (363878); 1 mineral, North America, John Sampson White (361801); 16 bamboos, Mexico, Steve Young (360903, 363641); 12 corals, Mexico, Puerto Rico, Vassil Zlatarski (365002, 365533); 47 mammals, Marine Mammal Program (360551); 8,573 sponges and lower invertebrates, Tunisia, Mediterranean Marine Sorting Center (298584). Found in Collections: 1 petrified wood, North America (364210); 5,919 fossils (358264); 439 minerals (361098). Purchased: 10 copepods, North America (260739); 1 meteorite, North America (358446); 1 meteorite, North America (362910); 5 trilobites (360366); 1 meteorite, North America (356821); 98,225 butterflies (367029); 2,300 caddisflies, Bolivia (365543); 100 bird skeletons and 8 alcoholics, Ecuador (362336); 14 moths, Chili (367870); National Zoological Park: 1 elephant seal (357918); 36 mammals (360574); 1 salamander, North America (357945); 8 sea turtles, Greece (362106); 1 sea turtle, Cayman Islands (362701). Oceanographic Sorting Center: 344 stellerines, 2,764 scleractinians, 1,087 echinoids, Antarctica, Indian Ocean (260779); 9,624 misc. invertebrates, Antarctica, Indian Ocean and Brazil, (323383); 12 algae, Philippines (363571); 81 plants, Philippines (363576); 10 plants, Chile, Argentina, Philippines (357839); 3,084 holothurians, Antarctic Ocean (289601); 6 echinoderms, Antarctica (318316); 26,080 siphonophora and medusae, Ocean Acre Program (319613); 2,932 echinoderms and misc. invertebrates (356847); 2 gorgonians (356880); 10,325 echinodermata larvae, 228 echinoids, 182 crinoids, 61 asteroids, 61 holothurians, 109 ascidians, 12 scleractinians, 38 gorgonians, 10 ophiuroids (363789); 127 fishes, Belize (361433), 81 fishes, Bering Sea (363856); 112 fishes, Africa (363881); 2 gastropods, Panama (363760); 1,425 recent brachiopods (295038); 1,800 brachiopods (318633); 21 brachiopods (363941); 100 foraminifera (364780); 3 worms (361632); 1,549 worms (366143); 30 polychaetes (362274); 2 polychaetes, Belize (362789); 20 worms (363245); 85 worm slides (363468); 1,210 nematodes (363686); 290 polychaetes, Arctic Ocean (363755); 3,000 polychaetes (364522); 9 worms (365346); 31 worms (365409); 171 worm slides, Antarctic Ocean

Smithsonian (cont'd)
 and South Pacific (366118); Tropical Research Institute: 16
 echinoderms, Panama (314408); 3 sponges, Panama (359186); 1 mammal
 skeleton, Panama (362178); 1 crocodile, Panama (362178); 1 treefrog,
 Panama (364399).
 South African Museum, South Africa: 2 bird skeletons (362388,
 exchange).
 South Florida Research Center: 1 echinoderm (352816).
 South Florida, Univ. of: 8 echnoids (331914); 10 fishes (363884,
 exchange); 2 plants (364716).
 Southern California, Univ. of: 994 echinoderms (248694, 249302,
 361699); 11 crustaceans (349537); Allan Hancock Foundation: 18
 echinoderms (357631, 357618); 1 worm (363949); 303 corals and
 anemones (255039).
 Southern Illinois Univ. of: 18 fishes (317090, exchange).
 Southeastern Oklahoma State Univ.: 68 phanerogams (363625,
 exchange).
 Southwestern Louisiana, Univ. of: 128 plants (359703, exchange); 161
 plants (360837, 364673, 363579); 205 crustaceans (361133,
 361650).
 Springer Fund: 12 fossil crinoids (363747); 3 fossil echinoids
 (364779).
 Staatliches Naturhistorisches Museum, Germany: 2 fishes (361440,
 exchange); 3 fishes (361450).
 Stanford, Univ. of: 4 sea anemones (244137); 24 fossils (361571).
 Station Marine D'Endoume, France: 6 corals (359249).
 Stuart Fund, Smithsonian Institution: 5 minerals (358437, 359318,
 361029); 358364 (See also Hillman Fund).
 Swedish Museum of Natural History, Sweden: 14 lichens (364725,
 exchange).
 Tasmania, Univ. of, Australia: 1 plant (359650).
 Tatsuo Tanaka Memorial Biological Station, Japan: 1 fish (337309).
 Tennessee, Univ. of: 1 echinoderm (362306); 1 lichen (364563).
 TereEco Corporation: 475 echinoderms (344397, 345879).
 Texas A&I Univ.: 4 holothurians (306442).
 Texas A&M Univ.: 11 asteroids, 1 coral, 8 echinoids and holothurians
 (310232, 326305, 335983, 338320); S. M. Tracy Herbarium: 104 plants
 (361904, 364665, exchanges).
 Texas Tech Univ.: 9 fossils (364118).
 Texas, Univ. of: Herbarium: 67 plants (363554, 363602, 363623,
 364746); 20 plants (364746, exchange); Institute of Marine
 Science: 24 fishes (248691, exchange); Marine Biomedical
 Institute: 25 sponges (332586).
 Toronto, Univ. of, Canada: 20 echnoids (361327).
 Tropic World Foundation Inc.: 16 plants (363176).
 Tyrrell Museum of Paleontology, Canada: 7 slabs of Devonian
 brachiopods (353571, exchange).
 Universidad Autonoma de Nueva Leon, Mexico: 4 fishes (319464).
 Universidad Catolica de Valparaiso, Chile: 11 fishes (362541,
 exchange).
 Universidad Central de Venezuela, Venezuela: 65 fishes (361452,
 362540, exchanges); 1 plant (360866, exchange); 249 plants
 (360866, 360768, 360881, 360905, 363190, 364706 364623).
 Universidad de Antioquia, Colombia: 10 plants (360891).

Universidad de Concepcion, Chile: 10 holothurians (260599).
 Universidad de Costa Rica, Costa Rica: 35 fishes (362573, 365332).
 Universidad de Guadalajara, Jalisco: 1 plant (359701, exchange).
 Universidad de Los Andes, Venezuela: 20 plants (360841, exchange); 109 plants (360841, 363573, 363600, 364568, 364659, 364711).
 Universidad de Oriente, Venezuela: 2 tunicates (363075).
 Universidad Nacional de Asuncion, Paraguay: 86 phanerogams (364653).
 Universidad Nacional de Colombia, Colombia: 5 plants (364616, exchange).
 Universidad Nacional del Nordeste, Argentina: 33 plants (exchange), 10 plants (364621).
 Universidad Nacional de Tucuman, Argentina: 28 mealybugs (365135).
 Universidad Nacional Experimental de Los Llanos Occidentales "Ezequiel Zamora", Venezuela: 26 plants (363192).
 Universidad Nacional Tecnica de Cajamarca, Peru: 91 phanerogams (364573).
 Universidade de Sao Paulo, Brazil: 101 phanerogams (360885); 1,787 fishes (361451, exchange); 17 insects (361611, exchange); 366 caddisflies (365577).
 Universidade Federal de Minas Gerais, Brazil: 2 plants (360848).
 Universidade Federal de Sao Carlos, Brazil: 98 fishes (365256, exchange).
 Universidade Fereral de Vicos, Brazil: 20 plants (365815).
 Universitat Hamburg, Germany: 12 plants (363631, exchange).
 Universitat Munchen, Germany: 8 plants (362073).
 Universitat Tübingen: Zoophysiologisches Institut, West Germany: 11 sea anemones (249108); 15 echinoids (352485).
 Universite D'Aix Marseille, France: 1 echinoderm (330419).
 Universite Libre de Bruxelles, Belgium: 1 echinoderm (352070).
 Universitetet I Tromsø, Norway: 1 insect slide (362834).
 University College of the West Indies, Jamaica: 1 sea anemone (233397); 4 scleractinian corals (256553); 11 plants (363501).
 University of the West Indies, Trinidad: 16 octocorals (323843).
 University College of Swansea, England: 7 crustacean slides (362983).
 Uppsala, Univ. of, Sweden: 118 plants (360765, 363597, 364564, 364672, exchanges).
 Utah, Univ. of: 4 sponges (361017); 1 plant (363488).
 Vanderbilt Univ.: 28 plants (362072); 73 plants (364670, exchange).
 Vepco-North Anna Power Station: 17 crayfishes (362529).
 Virginia Institute of Marine Science: 36 sharks (361445); 5 mammals (364847); 4 sea anemones (239462).
 Virginia Polytechnic Institute and State Univ: 2 scale insects (365136).
 Visayas State College of Agriculture, Philippines: 30 sponges (355888).
 Walcott Fund, Smithsonian Institution: 2 fossil (361196, 364756).
 Washington, Univ. of: Fisheries Research Institute: 22 crustaceans (363997); School of Oceanography: 83 crustaceans (361821); Marion Ownbey Herbarium: 125 plants (359677).
 Waterloo, Univ. of, Canada: 5 crustaceans (360936, exchange).
 Western Foundation of Vertebrate Zoology: 125 birds (355790, exchange).

William and Mary College: 9 insects (365578).
 Wisconsin, Univ. of: Herbarium: 68 plants (359707, 361924, exchanges); 17 plants (361924).
 Woods Hole Oceanographic Institution: 19 fishes (213425, exchange); 1 horn coral (251124); 24 worms (362217).
 Wyoming, Univ. of: 60 bagworms (365159).
 Yale Univ.: Peabody Museum of Natural History: 100 sea anemones (243276); 1 bird skeleton (362317, exchange).
 Zoologisches Museum: Christian-Albrechts-Universität, Germany: 235 lacewings (365153, exchange).
 Zoologisk Museum, Denmark: 2 asteroids (361823, 363266, exchange).

INDIVIDUALS

Rolf L. Aalbu: 9 beetles (362293).
 Robert Aaronheim: 100 moths (362813); 82 butterflies (363958, 365139, 365563).
 Dr. R. Tucker Abbott: 2 mollusks (363790).
 Dr. Robert E. Acciavatti: 19 insects (365376, exchange).
 Drs. Naosuke Adachi and Isao Yagi: 5 synthetic beryls (361792).
 John Agard: 2 crustaceans (362532).
 Dr. David G. Ainley: 136 sea birds (360458, 362382).
 Dr. Herculano Alvarenga: 16 birds (362370).
 Eliseo Amado-Gonzalez: 1 spider (362823).
 Joseph R. Anderson: fossil walrus canine (362278).
 Karen Anderson: 2 treefrogs (358019).
 Dr. Bryan L. Andryszak: 3 crustaceans (363321).
 J. Phillip Angle: 5 mammals (364876).
 Roy A. Armstrong: 7 corals (365440).
 Mr. and Mrs. Wallace L. Ashby: 7 fossil bird and seal (360129); fossil seal skeleton (361567); 2 fossil fish (363733).
 Dr. J. R. Ashworth: 2 minerals (363364).
 Sal Avella: 2 minerals (361752).
 Avril Ayling: 2 sponges (360121).
 Milton and Rita Babcock: 7 trilobites (362675).
 Dr. Julie Bailey-Brock: 15 worms (362881).
 Richard Bailowitz: 2 skippers (365143).
 Mr. and Mrs. J. Wayne Baker: 457 fossil vertebrates (359166, 365385).
 Greg Bammerlin: 9 fossil mammals (363090).
 Carlos do Prado Barbosa: 6 minerals (365916).
 Dr. Michael T. Barbour: 11 worm slides (366045).
 A. Barnes: 20 holothurians (331886).
 Roger C. Barnett: 9 minerals (359276, 364231).
 Jeannette Barreca: 12 worms (365361).
 Dr. Fabrizio Battoni: 1 beetle (362847).
 Bruce H. Bauer: 225 fishes (365326).
 John L. Baum: 1 mineral (363373).
 Dr. R. W. Baumann: 2 stoneflies (365165).
 Donald Baumgartner: 76 blowflies (367055); 92 houseflies (367070).
 Robert L. Benner: 1 fern (364676).
 Mrs. Thelma Bennett: 1 fossil tapir tooth (363254).

Dr. Richard H. Benson: 1 trilobite (366051).
 Ezio Bernabe: 30 minerals (364259, exchange).
 Colin D. Berrisford: 10 holothurians (260383).
 Dr. G. J. Beukes: 2 minerals (361076).
 Dr. Robert R. Bidigare: 1 gorgonian (363756).
 Mr. and Mrs. Thomas Biggs: fossil porpoise skull (363260).
 T. Dale Bishop: 15 worms (361627).
 Capt. and Mrs. D. B. Bixler: 21 crustaceans (362676). Andre Blanchard:
 18 moths (365145).
 Francis S. Blasdell: 23 amphibians and reptiles (358026).
 Dr. Nabil Z. Boctor: 1 meteorite (365903).
 Dr. Russell Boggs: 1 mineral (361051).
 David J. Bohaska: 4 fossil sea lion bones (363818).
 T. Bonace: 11 caddisflies (363973).
 Richard C. Bostwick: 1 mineral (361096).
 Dr. Raymond W. Bouchard: 170 mollusks (338755).
 John Boursot: 2 centipedes (365163).
 Michel Boutet: 14 land snails (366077).
 Dr. Ray A. Boyce: 7 pieces of petrified wood (366113).
 Jane Boyle: 6 mollusks (365608); 10 echinoderms (365638).
 Dr. Richard Braithwaite: 3 minerals (361077).
 Dr. John Bratney: 19 worms (362251).
 Jeffrey L. Briggs: 432 amphibians and reptiles (362768).
 Kevin B. Briggs: 505 recent brachiopods (363295).
 Dr. Ralph O. Brinkhurst: 9 worms (365410).
 Dr. Donald Brinkman: 39 Permian vertebrates (364000).
 Dr. Pierce Brodkorb: 280 bird skeletons (329591).
 Vernon Antoine Brou: 77 moths (362808, 365548).
 Mark Brown: 1 fossil porcupine fish jaw (363734).
 Dr. Richard L. Brown: 44 butterflies (362846).
 Roland Brown: 18 worms, 3 insects and 1 fish (361562).
 Dr. Robert L. Brownell: 1 porpoise (364888).
 Mrs. Ruth Browne: 4,000 fossils (360385).
 Paul and Helen Buchanan: 2 fossils (363830).
 Dr. John B. Buck: 182 insects (362842).
 Dr. David J. Bullock: 3 frogs (364396).
 Beatrice L. Burch: 4 corals (363311).
 Mrs. Thomas A. Burch: 1,751 echinoderms (300062).
 Mr. and Mrs. Thomas Burns: 5 fossil seal bones (361367); 67 fossil
 vertebrates (362280, 363238, 365868).
 Stephen D. Busack: 86 amphibians and reptiles (362726).
 Hector Caballos: 1 bird (360426).
 Curtis Callaghan: 26 insects (365546).
 Philip Cambridge: 50 echinoids (362513).
 Dr. Lyle Campbell: 1 fossil walrus bone (362880).
 Robert H. Campbell: 1 fossil wood (363256).
 Juan I. Canete and Dr. Louis H. Disalvo: 14 worms (365582).
 Dr. C. S. Carbonell: 470 caddisflies (365553).
 Dr. James T. Carlton: 100 mollusks (366313).
 Dr. James Carpenter: 24 insects (367043).
 Kenneth Carpenter: 1 fossil cast (359502).
 Dr. AnaLuisa Carreno: 13 microslides of fossils (362799).
 Gerard R. Case: 5 fossil whale specs. (363719).
 Dr. F. Chalumeau: 11 beetles (363764, exchange).

Ralph S. Chamness: 2 fossil fish jaws (366347).
 Dr. George Y. Chao: 1 mineral (365072).
 Paul J. Cheung: 2 protozoan slides (363323).
 C. Allan Child: 7 salamanders (283929).
 Dr. Leon S. Ciereszko: 12 gorgonians (319522).
 Mrs. Sharon Cisneros: 4 minerals (361060).
 Clarence F. Clark: 3 land mollusks (364117).
 Dr. J. F. Gates Clarke: 836 misc. insects (362830, 363957, 365568).
 Dr. Jonathan Coddington: 140 misc. insects and arthropods (365156).
 Paul Coffee: fragments of coral and pearl shell (357658).
 Ed. Cohen: 8 spiders (362838, 363965, 365573, 367063); 30 phanerogams (363209).
 Dr. E. I. Coher: 12 horseflies (367034).
 Dr. G. Kent Colbath: 19 fossil slides (366111).
 A. J. Comproni, II: 624 misc. insects (367039).
 Mr. and Mrs. A. J. Comproni, Sr.: 238 misc. insects (367038).
 Dan L. Cooper: 21 fossils (361379).
 Elly Ana Cordiviola: 10 sponges (269111).
 Dr. David T. Corey: 21 vial of spiders (363977); 58 arthropods (367072).
 Dr. Charles V. Covell, Jr.: 23 insects (363980, 365137).
 Dr. James Craig: 2 minerals (361080).
 Julian Cranfill: 3 minerals (361782, 363416).
 Dr. David Craw and Dr. John Williams: 4 minerals (361099).
 Dr. Brian R. Critchley: 1 worm (332774).
 Dr. Ronald I. Crombie and Jerry Hardy, Jr.: 12 mexican fruit bats (364477).
 Marvin Cross: 300 fossil shark and reptile remains (363261).
 Mrs. H. E. Crouch: 14 fossil samples (364157).
 Charles R. Crumly: 9 amphibians and reptiles (353816).
 Lydia Czapek: 1 quartz (361124).
 Dr. Stephen Danielson: 1 spider (367067).
 Dr. Mike Dardeau: 2 worms (362794).
 Charles N. D'Asaro: 300 egg capules and masses (363459).
 Dr. Dan M. Dauer: 3 worms (364761).
 Charles E. Dawson: 100 misc. invertebrates (212754).
 Mrs. J. A. Day: 2 insects (363956).
 Allen Dean: 4 minerals (361118).
 Dr. David Dean: 48 worms (366052).
 Dra. Nelly Carillo de Espinoza: 14 spiders (367073).
 Drs. Otto and Isa Degener: 40 phanerogams (361995).
 Hironori Deguchi: 1 plant (364728).
 Dr. Don Denning: 16 vials of spiders (362843).
 Philip DeVries: 2 insects (365558).
 Dr. Louis H. DiSalvo: See also Juan I. Canete (365582).
 Helmut Dismer: 1 mineral (362893).
 George Divoky: 3 birds (360484).
 Dr. Peter S. Dixon: 591 algae specs. (363540).
 David Dockery: 23 fossils (363832).
 Dr. T. W. Donnelly: 1 damselfly (362845).
 Raymond Douglas: 38 fossil vertebrates and amber (363240).
 Harry C. Dunlap: 4 squirrels, 1 weasel (360556).
 James M. DuPont: 5 meteorites (363357).
 Arthur F. Eadie: 1 mineral (362940, exchange).

Frances Eddy: 33 mollusks (359499).
 Dr. William G. Eberhard: 2 spiders (367031).
 Rev. Robert Eisele: 7 insects (362828).
 J. P. Eissen, P. Maillet, M. Monzier: 20 pumices (362895).
 Mrs. Elsie K. Eltzroth: 1 albino bluebird (360472).
 Richard Emlet: 10 holothurians (358061).
 Dr. Dodge Engleman: 1,997 misc. true bugs (362833).
 John H. Epler: 5 slides of flies (367074).
 Roland Eriksson: 25 minerals (359315, 365036, 365919).
 Carl H. Ernst: 61 turtles (356034).
 Dr. Christer Erseus: 12 worms, 11 worm slides (363279, 365613).
 Dr. Terry L. Erwin: 45 misc. insects (365576).
 Dr. Ralph E. Eshelman: 1 fossil (360131).
 Alvaro Esteues Migotto: 25 worms (361712).
 Dr. Elwin D. Evans: 4 fishflies (367052).
 Janet L. Evans: 4 mayflies (367060).
 Robert Evans: 1 mineral (359293).
 Dr. Michael Ewing: 6 worms (364762).
 Dr. H. Lee Fairbanks: 8 mollusks (355178).
 Dr. D. John Faulkner: 7 sponges (354812, 365167).
 Dr. Alice D. A. Fay: 201 ferns (364620).
 Dr. Mark Feinglos: 14 minerals (361732, 362951, 365061, exchanges).
 Albert L. Ferguson: 1 fossil auk humerus (360124).
 Dr. Douglas C. Ferguson: 2,921 moths (363971).
 Carl Ferraris: 28 corals (363720).
 Dr. C. D. Ferris: 4 insects (363961).
 Ola Fincke: 18 lots of frog larvae, 12 dragonflies (362737, 365571).
 Dr. Lloyd T. Findley: 2 hydroids (366312).
 Dr. Kenneth Finger: 9 fossils (366112).
 Robert Finkelman: 3 minerals (366511).
 Dr. Arne Fjellberg: 3 spiders (365162).
 David B. Flanagan: 2 bamboos (364729).
 Art Fletcher: 1 mineral (361052).
 Mrs. Carol M. Flint: 277 insects (363970).
 Dr. Larry Flynn: 46 fossil rodent casts (360075).
 Terence B. Foley: 56 insects (363975).
 George C. Fonger: 1 fossil seal incisor (363236).
 E. J. Ford, Jr.: 130 leaf miners (365562).
 Dr. W. A. Foster: 92 mosquitoes (367077).
 Jim Fowler: 3 minerals (365114).
 Harry Foye: 6 minerals (361123, 362975).
 Dr. J. H. Frank: 14 beetles (362844).
 Dave Franz: 45 asteroids (340673).
 Dr. Jack Frazier: 2 echinoderms (350354); 55 mollusks, 1 snake (362702).
 Dr. John G. Frazier: 8 echinoderms (330168, 347787); 22 worms (365600).
 Mr. and Mrs. Charles E. Freed: 5 minerals (365933).
 Vicky S. Frey: 29 echinoids (344925).
 Norton A. Vicira Fritzsche: 6 fossil fish skeletons (365633).
 Charles M. Fugler: 46 amphibians and reptiles (356027).
 Emilio F. Garcia: 1 mollusks (364369).
 Frank A. Garcia: 1 calcite (361780), 63 fossil fish and sirenian remains (362314).

Torgeir T. Garmo: 2 minerals (362938).
 B. J. Gartrell: 1 mineral (364214).
 Christopher Garvie: 22 eocene decapod crustaceans (363746).
 Ronald Gates: 4 minerals (363401).
 William R. Gates: 3 frog larvae (362133).
 Arthur Gerk: 77 fossils (364781).
 Ewald Gerstmann: 2 minerals (365875).
 Dr. Willis J. Gertsch: 18 vials of spiders (362810).
 Loran D. Gibson: 1 butterfly (363967).
 Mrs. Dorothy B. Gilchrist: 1 quartz (365083).
 Dr. R. J. Gilkes: 1 mineral (361050).
 Liz Gilreath: 1 beetle (365131).
 Colin W. Gipson: 2 fossil mammal jaws (363455).
 Dr. E. Gittenberger: 11 marine mollusks (364155).
 Dr. Thomas Gloerfelt-Tarp: 37 fishes (356448).
 Harry Joseph Goett: 122 metavolcanic rocks (364258).
 Mrs. Natalia Goodall: 11 fossil crabs and mollusks (363463).
 David Grabda: 3 shark-bitten whale rib fragments (364827).
 Frederick V. Grady: 40 fossil fish and mammal remains (363291).
 Dr. Richard E. Grant: 12 fossils (361666).
 Catherine D. Gray: See also James M. Gray (364753, 364754).
 James M. and Catherine D. Gray: 2 pieces of green fossil woods and 3 petrified wood logs (364753, 364754).
 Paul R. Greenhall: 12 amphibians and reptiles (298757).
 Dr. Joel Grice: 2 minerals (361746).
 Dr. J. Norman Grim: 1 protozoan slide (366500).
 Todd Grimsley: fossil albatross portion (362214).
 Matthew S. Groher and Dr. James G. Morin: 6 ophiuroids (363786).
 Dr. W. T. T. P. Gunawardane: 8 insects (365216).
 John Gunderson: 2 protozoan slides (365985).
 Gerald Gunderson: fossil acanthodian (363674).
 Dr. Charles R. Gunn: 19 plants (363572).
 Lloyd Gunther: fossil slab (366277).
 Dr. Stefan Hain: 5 mollusks (365342).
 Peter A. Hall: 15 mollusks (363826).
 Mr. and Mrs. Rick Hamera: 347 moths (367040).
 S. W. Hamilton: 1 caddisfly (367061).
 Jeff Hancey: 1 fossil (363735).
 Samuel Hansen: 2 minerals (365055).
 Dr. Staffan Hansen: 1 mineral (364275).
 Charles Hanzlick: 1 fossil wood (365632).
 Richard Harbison: 2 echinoderms (334763).
 Jerry David Hardy, Jr: See also Ronald I. Crombie (364477).
 Peter H. Harmatuk: 1,836 fossil vertebrates (361307, 363244, 365018).
 Francis Harrington: 202 misc. insects (365547, 367046).
 Dr. S. C. Harris: 53 caddisflies (362824).
 Simon Harrison: 1 mineral (363399).
 Harold W. Harry: 27 worms (352076); 1 sponge (352076).
 Jack Harry: 4 insects (365160).
 G. Schmedia Harschmann: 53 plants (363139).
 Dr. John P. Hartley: 2 worms (362193).
 Eugene F. Hartstein: 3 fossil mososaur teeth (365470).
 Michiaki Hasegawa: 12 water beetles: (363964).

Dr. Phyllis Hasson: 35 fossils (365988).
 Dr. Marea Hatziolos: 17 sponges (356576, 359478).
 Fred Hayes: fossil shark, seal and sirenian remains (363239).
 Robert M. Hazen: 7 minerals (361737).
 Richard W. Heard: 7 sponges (362307).
 Dr. Barbara Hecker: 1 asteroid (365406).
 Claus Hedegaard: 13 minerals (361785, 365049).
 Joe Heidenberg: fossil seal metatarsal (361149).
 Dieter Heinlein: 1 meteorite (363423).
 Ernst Heiss: 2 insects (362832).
 Edward P. Henderson: 25 minerals (363419, 365961).
 Dr. Q. B. Hendey: 200 mollusks (355468).
 Wolfgang Henkel: 2 minerals (362947).
 Dr. George Herman: 5 corals (365170).
 Hugh Heron: 1 mineral (364305).
 Mr. and Mrs. Scott Hertenstein: portion of a fossil monk seal jaw (363262).
 Martin Hetz: 84 weevils (363955).
 Dr. Henry A. Hespenheide: 18 insects (365555).
 Gary F. Hevel: 15,124 misc. insects (365545).
 James Hill: 51 birds (362413).
 Dr. Steven Hill: 168 phanerogams (364641).
 Evelyn Himelgrin: 1 mineral (363410).
 Mr. and Mrs. L. Hodges: fossil shearwater toe bone (363088).
 Richard L. Hoffman: 2 salamanders, 21 insects (357982, 367049).
 N. D. Holland: 1 protozoan slide (363310).
 David W. Hollenbaugh: 14 minerals (361119).
 Jay Holley: portion of a fossil walrus and 8 fossil vertebrates (360246, 363237).
 Ralph W. Holzenthal: 21 dragonflies (367050).
 Carolus Holzschuh: 2 beetles (365551).
 Dr. Hideo Horikawa: cast of a fossil sea lion (361197).
 Peter Houde: 1 partial bird skeleton (360478).
 Richard Hronik: 3 minerals (365065).
 Dr. Neil C. Hulings: 100 marine mollusks (362432).
 Dr. Mario A. Hunicken: cast of a fossil spider (362502).
 Alexander D. Huryn: 6 caddisflies (362811).
 John A. Hyatt: 188 moths (362822).
 Mr. and Mrs. Frank Hyne: 1,152 fossil vertebrates (360247, 362281, 363716, 365531).
 Dr. Thomas Iliffe: 2 echinoderms (342201).
 Dr. Billy G. Isom: 12 freshwater mollusks (363314).
 Michael A. Ivie: 4 beetles (365140).
 Jeremy F. Jacobs: 71 amphibians and reptiles (358028).
 Dr. John L. Jambor: 7 minerals (365126).
 Matthew J. James: 4 fossil echinoids (363749).
 Dr. Henry Jarecki: 4,620 misc. insects (363972).
 Dr. Dale Jenkins: 32 butterflies (362840).
 Dr. J. G. Johnson: 12 fossil brachiopods (361018).
 Mark E. Johnson: 2 fossil seal flipper bones and a partial tooth (363241).
 Thomas T. Johnson: 1 fossil (363736).
 David Johnston: 2 snakes (362751).
 Jerome Jones: 2 salamander larvae (326286).

Victoria Jones: 80 caddisflies (367395).
 Charles Judd: a bound book of plant specs. (359711).
 James Kaltenbach: a partial porpoise skull (361147).
 Dr. Anthony Kampf: 1 mineral (361800).
 Dr. Leslie Kanat: 1 mineral (365907).
 Dr. B. J. Kaston: 240 vials of spiders (362820).
 Dr. Masaharu Kawakatsu: 3 worms (361380).
 Roy O. Kendall: 4 small moths (365148).
 Dr. Peter Kimmel: a fossil catfish spine (363751).
 Mrs. Nettie E. King: a fossil walrus rostrum (363252).
 Ralph F. Kirchner: 1 water beetle and 147 misc. insects (362841, 362849).
 Dr. Ernst Kirsteur: 3 worms (361677).
 Dr. Edward C. Knudson: 15 insects (365141, 365147).
 Mrs. Patricia H. Kohler: 5 fossil cephalopod, seal and walrus remains (363107).
 Dr. Alan J. Kohn: 2 fossils (363944).
 John Kolic: 9 minerals (361055, 361079, 361113, 365075).
 Dr. Boris C. Kondratieff: 3 mayflies and 10 stoneflies (362825, 363979).
 Dr. Nicholas A. Kormilev: 1,019 tiger beetles (365549).
 N. L. H. Krauss: 2,073 misc. insects (363689, 365149, 367032).
 Dr. N. P. Kristensen: 69 caddisflies (362848).
 Dr. Barry S. Kues: 2 fossils (365229).
 Dr. Kishor Kumar: 34 casts of indian fossil mammals (361860).
 Jean Lacourt: 66 sawflies (359197, 363976, exchanges).
 Dr. Paul K. Lago: 6 caddisflies (365158).
 Cathy Lamb: 5 crustaceans (337316).
 Trip Lamb: 1 treefrog: (362709).
 Austin E. Lamberts: 1 coral (358189).
 Paulo da Cunha Lana: 37 worms (365020).
 Mr. and Mrs. L. K. Land: 1 quartz (361063).
 N. Gary Lane: 66 fossils (363091).
 Scott Larcher: 61 misc. insects and arthropods (367048).
 Ronny Larsson: 27 protozoan slides (350438, 359498, 361420, 365867).
 Dr. A. L. Laskar: 3 minerals (363363).
 Rene Maximiliano Lazalde M.: 19 opals (364213).
 Dr. James D. Lazell, Jr.: 40 misc. insects and arthropods (367053).
 James Leggett: 3 fossil peccary and whale teeth (363454).
 Jean le Mouel: 8 minerals (361738).
 Sara Leshner: a fossil gannet distal end (365359).
 Dr. Herbert W. Levi: 2 spiders (362821).
 Lance R. Lewand: 19 echinoderms (360660, 361328).
 Dr. David J. Lewis: 2 mothflies (365536).
 William R. Liltved: 18 marine mollusks (363035).
 Dr. Bengt Lindqvist: 1 mineral (365896).
 Ernest A. Liner: 17 amphibians and reptiles and 61 crustaceans (362161, 362534).
 Dr. Elbert L. Little, Jr.: 235 plants (363474).
 A. R. and Helen Tappan Loeblich: 206 fossil foraminiferas (361019, 361576).
 Helen Tappan Loeblich: See also A. R. Loeblich (361019, 361576).
 Gordon Love: 3 echinoids (313941).
 Dr. P. J. Loveland: 4 minerals (361763).

Joachim Luckwaldt: 3 minerals (361070, 361789).
 Spencer R. Luke: 7 asteroids (351262); 1 echinoderm (363076).
 Dr. Denis H. Lynn: 1 protozoan slide (357446).
 Dr. I. H. H. Lyster: cast of a fossil seal humerus (360500).
 Dr. A. S. Y. Mackie: 3 worms (362208).
 Dr. David B. MacLean: 50 caddisflies (365552).
 Jean-Michel Maes: 8 caddisflies (367066).
 P. Maillet: See also J. P. Eissen (362895).
 Dr. Peter F. Major: 15 caridean shrimp (363307).
 Linda Yvonne Maluf: 1 echinoderm (361698).
 Dr. Joseph A. Mandarino: 1 mineral (364234).
 Margaret Mann: 25 brachiopods (360313).
 John C. Markham: 1 crustacean (356430).
 Natalie J. Marovelli: 8 mammals (360562).
 Joseph Martinez: 1 bird (364090).
 Juan C. Martinez-Sanchez: 119 birds (355806).
 Maxwell P. Marrow: 13 marine mollusks (354806).
 Dr. Stephen A. Marshall: 58 flies (367051).
 Bryant Mather: 15 insects (365132, 365540).
 Philip Mays: 2 butterflies (362829).
 Dr. W. P. McCafferty: 2 mayflies (366064).
 Dr. John C. McCain: 5 echinoderms, 853 worms (362503).
 Linda J. McCarthy: 7 fishes (362554).
 Peter McCrery: 4 fossils (361148).
 Emory McDaniel: 16 minerals (362921, 363392, 364252, 365915).
 Marion McDowell: 1 eel (362550).
 Noel McFarland: 1,112 moths (362851).
 Michael McInnis: 25 butterflies (367076).
 L. David Mech: 3 lice (365154).
 Olaf Medenbach: 1 mineral (362949, exchange); 4 minerals (362950).
 Dr. Marcello Mellini: 4 minerals (363374).
 George Melloy: a fossil pollywog (362640).
 Dr. Arnold Menke: 1 millipede (362831).
 Eric H. Metzler: 129 moths (367045).
 Drs. Paul and Paula Mikkelsen: 5 fossils (363943).
 Charles D. Miller, III: 9 misc. insects (367042).
 Dr. Charles N. Miller, Jr.: 1 fossil and 34 fossil slides (363728).
 John Miller: 6 echinoderms (331610).
 Scott Miller: 40 land and freshwater mollusks (361376).
 Dr. Claudia E. Mills: 6 echinoderms (365233).
 John C. Modin: 4 protozoan slides (341123).
 M. Monzier: See also J.P. Eissen (362895).
 H. P. Mookherjee: 4 marine mollusks (359161).
 Dr. Donald R. Moore: 2 mollusks (364156).
 Gary A. Moore: 1 iguana skeleton (358031).
 John Moore: phalanx portion of a fossil walrus (363025).
 Jon Moore: 11 fossil vertebrates (363794).
 Dr. Paul B. Moore: 8 minerals (362941).
 Dr. James G. Morin and Matthew S. Grober: 6 echinoderms (363786).
 Mrs. Michael D. Mullin: 2,270 fossils (363292).
 William L. Murphy: 418 flies (362816, 365538).
 Mrs. Ruth Murter: a fossil vertebra (365393).
 Masahito Natori: 2 raccoon dog skulls (360589).
 Mrs. L. D. Neill: 5 echinoderms (315890).

Barry Nelms: 1 fin whale (364885).
 A. C. Neumann: 17 echinoderms, 1 mollusks (359248).
 Dr. Ernest Nickel: 2 minerals (361749, 365092).
 Col. and Mrs. Marion Nielsen: 800 vertebrates (361308).
 Tony Nikischer: 1 mineral (365906).
 Dr. Y. Noack: 1 mineral (361075).
 Bob Nostrand and Carol Nostrand: 2 fossils (362224).
 Carol Nostrand: See also Bob Nostrand (362224).
 Randy Nunnery: a fossil auk ulna and auk phalanx (361329, 365019).
 Ulf Nyberg: 2 minerals (365117).
 Dr. C.W. O'Brien: 11 weevils (365535).
 Jeff O'Neil: a fossil tilefish skull (361022).
 Dr. J. Orensanz: 16 worms (365021).
 Tinika Ossman: 7 land mollusks (362295).
 Dr. William Leslie Overal: 14 weevils (365550).
 Dr. R. T. Patterson: 44 foraminifera fossils (361625, 366013).
 Dr. W. H. Paar: 3 minerals (363402).
 Faith D. Paine: 1 spider (367065).
 Kay Pannell: latex cast of a dinosaur trackway (365408).
 Theodore J. Papenfuss: 1 lizard (362705).
 Dr. Charles R. Parker: 12 insects (363981).
 Dr. Narayan G. Patel: 123 phanerogams (365732).
 Harry Pavulaan: 58 skippers and butterflies (365161).
 Dr. Donald Peacor: 1 mineral (365964).
 Dr. David L. Pearson: 82 ground beetles (362835, 365157).
 Dr. F. Pechar: 1 mineral (361786).
 Claudia Pennie: 1 bird (360451).
 Wendell Pennington: 1 water penny beetle (363966).
 Don Pershau: 4 spiders (367064).
 Dr. Ole V. Petersen: 1 mineral (357507, exchange).
 Wayne R. Petersen: 1 bird (360389).
 Giorgio Peyronel: 1 mineral (362929).
 Peter E. Pickens: 19 worms (273540, 289455).
 J. F. Pickett, Sr.: 1 crayfish (361140).
 Dr. Harold Pieper: 2 bird skeletons (360394, exchange).
 Guy E. Pierson: fossil sirenian skull jaws (362490).
 Sid Pieters: 1 mineral (365929).
 William W. Pinch: 35 minerals (359319, 362979, 363422).
 Gyongyi Plucer-Rosario: 2 sponges (362530).
 Mr. and Mrs. John A. Plugge: 1 sapphire (362945).
 Gregory K. Pregill: 1 cave fish and 5 birds (362111).
 Dr. Allan Pring: 1 mineral (361054).
 Siegfried Raabe: right and left periotics of a fossil whale (362313).
 Dr. Frank Radovsky: 3 small moths (362817).
 Russell A. Rahn: 500 butterflies and moths (361692, 365557).
 Dr. K. B. Rajput: 27 insects (367069).
 Dr. John S. Ramsey: 523 crustaceans (359814).
 Dr. J. A. Ramos: 8,565 misc. insects (362819).
 Anthony B. Rath: 16 medusae (334764).
 Dr. Carleton Ray: 510 sponges and echinoderms (271533).
 Dr. Jan Reban: 2 minerals (364253).
 Dr. Richard Reeder: 1 mollusk (364772).
 David G. Reid: 360 mollusks (354807).
 George Reiger: 5 birds (360457).

Mr. and Mrs. Tomm Reinhold: 1 fossil tapir tooth (364002).
 Susanne Renner: 98 plants (364631).
 Dr. H. Ribeiro: 10 insects (363978).
 Prof. H. Ribeiro: 2 mosquito slides (366974).
 Dr. W. E. Ricker: 1 stonefly (365166).
 Norman L. Riker: 3 fossils (361818, 363817).
 Dr. Edward G. Riley: 4 beetles (363969, 365133).
 Dr. Nathan W. Riser: 2 worms (363695). Juan A. Rivero: 1 frog
 (362767).
 Sgt. Albert J. Robb: 2 fossil seal bones (365395).
 Dr. Robert K. Robbins: 69 butterflies (362837).
 Sandy Roberts: 2 fossil bird bones (360127).
 Willard L. Roberts: 8 minerals (363365).
 George Robinson: 2 minerals (363381).
 Dr. R. A. Robison: 5 fossils (363750).
 Frank Rocek: 4 minerals (361104).
 Dr. W. D. Ian Rolfe: 6 fossil plants (361686).
 George R. Rossman: 2 minerals (361788).
 Dr. Gar W. Rothwell: 3,024 fossil plants (366110).
 Jean-Paul Roux: 2 bird skeletons and 2 skulls (364091).
 C. Ruckdeschel: 14 mollusks, 16 worms (339362).
 Jack Rudloe: 5 echinoderms (265044).
 Charlotte Watson Russell: 8 alcoholic worms (363312).
 Dr. O. A. Saether: 42 slides of flies (367075).
 Frank P. Sala: 163 moths (367037).
 Rev. Lamuel G. Salik: 1 topaz, 2 beryls (365063).
 Dr. Harry M. Savage: 483 misc. insects (362827, 367068).
 Alan H. Savitsky: 127 amphibians and reptiles (362731).
 Dr. M. Schlegel: 2 protozoan slides (365441).
 Dr. G. Schmeda: 87 plants (365797).
 Dr. K. Schmetzer: 1 mineral (362907).
 Dr. Robert W. Schmieder: 50 echinoderms (355566).
 Mr. and Mrs. Vincent P. Schneider: 344 fossil vertebrates (361861).
 Angelika Schwarz: 2 echinoderm slides (344725).
 J. Douglas Scott: 1 mineral (361015).
 Randy Scott: 163 fossil vertebrates (361651, 363293).
 Frank Seidenschwarz: 13 plants (363170).
 Nelson R. Shaffer: 5 minerals (364278).
 Earl W. Shindlecker: 1 mineral (365050).
 David Shipman: anterior portion of a fossil cetothere mandible
 (361201).
 Herbert Shockley: 1 fish (365299).
 Dr. Liu Sicheng: 7 slides of worms (363131).
 Michael G. Siegel: 1 quartz (365109).
 Werner Simon: 4 minerals (365051).
 Dr. Barbara H. S. Smith: 4 minerals (363350).
 Dr. Julian P. S. Smith III: 2 slides of worms (362505).
 Richard H. Smith, Jr.: 56 butterflies (365574).
 Claudia Sobrevila: 60 spiders and 1 scorpion (365541).
 Dr. James Sorauf: 2 fossils (363692).
 Tony Soria: 152 moths (367041).
 Dr. Sheldon Spencer: 4 fossils (363947).
 Trent Spielman: fossil amphibian trackway (363831).
 Charles Staines: 728 water and lady beetles (362812, 365146, 367056).

Dr. William P. Stark: 134 stoneflies (365567).
 Mrs. Terry A. Stasney: 100 stalk-eyed flies (365560).
 Dr. Wolfgang Sterrer: 12 echinoderms (365866).
 R. H. Stewart: 89 minerals (359997).
 R. L. Stewart: 11 minerals (358448).
 George C. Steyskal: 132 insects (365151, 367047).
 Dr. Bruce L. Stinchcomb: 4 gastropods (363942).
 Dr. Carl W. Stock: 9 stromatoporoids (361309, 363999).
 Dr. H. P. Stockwell: 150 weevils (365150).
 Dr. Gary M. Stonedahl: 4 insects (363959).
 Will Straube: 12 echinoderms, 9 mollusks, 55 worms (359475).
 Dr. Stephen A. Stricker: 5 worms (362804).
 Dr. Leonell C. Strong, Jr.: 3 mollusks (362270).
 Dr. Kenneth J. Sulak: 2 fish (343244).
 Rev. James M. Sullivan: 32 leaf beetles (362826).
 Richard Swain: fossil sea cow skull cap (361000).
 Dr. Neil R. Swanberg: 3 radiolarians (361701).
 Dr. Keene Swett: 10 fossils (364371).
 Clyde Swindell: 243 fossil vertebrates (361200, 363294).
 Tina Tabarini: 1 mollusk (363714).
 Tadashi Tano: 1 insect (364774).
 Dr. A. C. Tarjan: 100 worms (360504).
 Dr. I. Barry Tarshis: 74,428 blackflies (365144).
 Calvin E. Taylor: 11 fossil bird bones (360130, 362215).
 Dr. John Taylor: 9 echinoids (366297).
 Dr. Malcolm Telford: 100 echinoids, asteroids, holothuroids (366141).
 Dr. Harry ten Hove: 40 worms (365636).
 Dr. Hjalmar Thiel: 350 worms (365511).
 Betsy Trent Thomas: 1 bird (362379).
 Dr. Donald B. Thomas, Jr.: 1 stink bug (363954).
 William W. Thomas: 4 birds (360430).
 Dr. Ronald Tripp: 31 trilobites (362222).
 Jane Tucker: fossil seal tooth (362279).
 Capt. Paul N. Turner: 32 worms (365649).
 Dr. Paul Tuskes: 31 moths (362818, 363963).
 William Ulrich: 4 minerals (361747).
 Dr. Franco Urbani: 1 mineral (363403).
 Dennis C. Van Hoose: 1,407 insects (367036).
 Dr. Charles van Riper, III: mummified bird (364095).
 Wouter I. Van Tichelen: 8 minerals (362902, 363327, 363415).
 Oscar Flores Villela: 3 lizards (358017).
 Dr. Emily H. Vokes: See also Dr. Harold E. Vokes (362673).
 Dr. Harold E. Vokes and Dr. Emily H. Vokes: 14 fossils and 1 silicon cast (362673).
 Dr. Fritz Vollrath: 1 spider (362809).
 Dieter Von Samson: 10 fossil crocodile remains (360364).
 Grady Walker: 75 fossils (362312).
 Dr. Hsien-Ming Wan: 8 minerals (361748).
 Dr. Chia-Ching Wang: 2 echinoids (365630).
 Dr. George F. Warner: 28 sponges (356953).
 Dr. Anders Waren: 1 mollusk (364548).
 Dr. Les Watling: 20 worms (365510).
 Charles N. Watson, Jr.: 2 butterflies (365142).
 Ronald Watson: 3 fishes (365257).

G. Thomas Watters: 1 mollusk (363275).
 John Watters: fossil sperm whale tooth (359854).
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 Dr. John S. Weaver, III: 2 caddisflies (367035).
 David Wells: distal portion of a fossil fish crow (366296).
 Dr. Harry W. Wells: 160 anemones (231172).
 James W. Westgate: 10 fossil vertebrates and cast of a fossil tusk (364193, 365468).
 Dr. Wilfried Westheide: 22 worms (363108, 365236).
 David R. White: 124 water snakes (356079).
 Dr. Wiedman: 16 fossils (364192).
 Ronald S. Wiegus: 374 moths and wasps (362815, 367033, 367044, 367071).
 Frank Wilbur: 3 pieces of green colored fossil wood (364757).
 Dr. Hans-Jurgen Wilke: 1 mineral (363328, exchange).
 Gaye L. William: 1 mollusk (366314).
 Dr. John Williams: 4 minerals (361099).
 Dr. P. J. Williams: 2 minerals (361064).
 Dr. Scott Wing: 1 spider (367054).
 Eugenia I. Wright: 818 marine mollusks (362308).
 Jill Yager: 1 coral (353354).
 Dr. Isao Yagi: See also Dr. Naosuke Adachi (361792).
 Dr. Tsunyi Yang: 10 brachiopods (365476).
 Dr. Ellis L. Yochelson: 5 fossils (362501).
 Dr. Daniel K. Young: 5 insects (365556).
 Dr. Frank N. Young: 66 scarab beetles (349858).
 Dr. Leonard Young: 25 marine mollusks (360309).
 Gary G. Youngblood: 1 cotton rat (360635).
 Victor Yount: 4 minerals (361804); 1 mineral (362903, exchange).
 E. Yustiz: 4 wasps (365542).
 Sven Zea S.: 19 sponges (341001, 359476, 361326).
 Dr. Zhou Zhiyan: 11 fossil plants (366016, exchange).
 Dr. Helmut Zibrowius: 7 echinoderms (358338).
 Dr. A. Victor Zullo: 25 fossils (361422, 364521, 365344).

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- Rita J. Adrosko: double-woven 19th-century American textile (1982.0146); in memory of Mr. and Mrs. John Adrosko: dress, veil, and a photograph from the wedding of Alice Krynicki Adrosko on July 15, 1928 (1984.0556).
- Richard E. Ahlborn: 6 Spanish religious booklets, a lariat, and a loop for a lariat (1978.0346).
- George C. Ahrling: set of drafting instruments (1983.0238).
- Robert S. Alexander, Ph.D.: manometer recording camera with frame and manometers C, D, E, and F developed and used by Dr. Carl J. Wiggers for recording heart sounds, 1920s-1950s (1982.0199).
- Whitney Alexander: 13 lace collars, cuffs, borders, and head pieces and 2 white embroidered furniture scarves (1985.0161).
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- Sonie Ames Designs (through Corinne C. and Sonie Ames): porcelain plate decorated with hand-painted roses done by Sonie Ames in 1981 (1984.0727).
- Dr. George W. Andrews: folding camp table, enamelware coffeepot, and tinned sheet iron frying pan used by Dr. Andrews' parents after 1926 (1984.0527).
- Katharine and Mary Anglemeyer: female doll with papier-mache head and shoulders, kid leather body, wooden limbs, and wearing a long white lace dress, ca. 1850 (1985.0066).
- Anonymous in memory of Bernice Chrysler Garbisch: woman's white peignoir with orange polka dots designed by Yves St. Laurent, 1973-77 (1983.0242); 2 Yves St. Laurent designer dresses, a pair of black patent leather pumps, and a pair of burgundy satin shoes, all 1968-72 (1983.0338); woman's jumpsuit and coat designed by Hubert de Givenchy, 1965-70 (1984.0037).
- Apple Arts, Ltd. (through Gerald Fried and Malcolm A. Lav): 2 complete sets of progressive proofs used to print 2 works by artist Steve Zazenski by the Positone lithographic process developed by Apple Arts, Ltd. (1984.0738).
- Judith Arness: 3 saris from India, 2 of cotton and one of silk, 1960-62 (1984.1063).
- Artists Against Nuclear War, Reactors and Waste (through Edith DiRe):

poster titled "Pentagon" (1984.0805).

Dr. Joseph and Rochelle D. Aschheim: egg-eyed darner's needle package by Kirby, Beard & Co., silk crewel needle package by Abel Morrall Priory Mills, and a package of 2 needles by Westgate Mills (1984.0413).

Rochelle D. Aschheim: woman's orange angora hat contained in its original hat box, 1920-40 (1983.0653).

Col. Whitney Ashbridge: company size U.S. Army field desk (1979.0659).

Burton E. Ashley: button hook advertising Schneider Brothers Company of Bemidji, Minnesota, 1914-17 (1983.0608).

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Dorothy Averill: trapunto-quilted bureau cover made by Charley Minerva Wheaton of Marbledale, Connecticut, 19th century (1984.0326).

Gary P. and Sandra G. Baden: 8 photograph albums containing 212 tintypes, 24 cartes de visite, 24 cabinet prints, and a paper print (1985.0258); 131 tintype photographs, 2 studio paper prints, and a snapshot (1985.0280).

Mrs. Alice G. Bader: silver chain mesh purse, 1907-30, and a silver vanity purse, 1916 (1983.0816).

Ruth D. Baer: 2 pillow shams, nightgown, chemise, drawers, corset cover, and a towel from the wedding trousseau of Clara Fellheimer Israel, married August 2, 1882 (1982.0107).

Charles M. Bagenstose in honor of Edna E. Bagenstose: woman's black fan and red dress, late 19th century (1982.0617).

Jean G. Baker: 3 girl's hats and a muff, a collar bag, 2 woman's corselettes, 3-piece dress, blouse, gloves, stockings, and a belt, late 19th and early 20th centuries (1984.0089).

Baldwin-Wallace College (through James D. Harvey and Dr. Neal Malicky): 2 hand-held telescopes, a refractor telescope with tripod, spectroscope, photometer, surveyor's compass, and an orrery, 19th and 20th century (1985.0386).

Bally Manufacturing Corporation (through Glenn K. Seidenfeld, Jr.): girl's bathing suit with "Ms. Pac-Man" logo and boy's pajamas, robe, and sweatsuit, with "Pac-Man" logo, 1982-83 (1984.0917).

Walton G. Banks Inc. (through Walton G. Banks): 4 calculating machines and an adding machine (1984.0682); engineer's chain (1984.1024).

Lois W. Banner: boy's T-shirt with slogan "A boy of quality is not threatened by a girl for equality," 1981 (1984.0806).

Harold E. and Joan Bartruff: miniature stoneware jug made at the Anna Pottery in Anna, Illinois, 1878-94 (1984.0068).

Jeanne M. and Preston R. Bassett: coarse salt-glazed stoneware ring flask and a brass, marble, and glass camphene lamp, both mid-19th-century American (1983.0801).

Preston R. Bassett: 313 ceramic and glass lighting devices showing the range of type, style, and method of manufacture during the 19th century (1979.0796).

Helen Stanton Bauer and Walter Kay Bauer: 2 medals, 2 photographs, 2 news articles, a newspaper, and a sea chest all reflecting the naval career of Oscar F. Stanton from midshipman to rear admiral, 19th century (1983.0487).

Mrs. Ella Strother Baughman: 2-passenger sleigh, ca. 1870 (1979.0679).

Bausch & Lomb (through Margaret Ross): 2 Bausch & Lomb contact lens care kits and a pair of Soflens contact lenses (1981.0330).

Carter Bays: 5 toy sewing machines and a needle-making machine patent model invented by Taddeus Fowler (1983.0616); 3 toy sewing machines and a sewing machine patent model invented by T. J. Halligan (1983.0827).

Bruce S. Bazelon: 3 buttons, 2 medals, 2 badges, and 2 insignia from various U.S. military units, 19th and 20th century (1978.0011).

Elizabeth Behr in honor of Mary Berenice Behr, Chauncey Adelbert Doxtater, and Mimi (Mildred) Fitzharris: First Communion dress of white cotton with lace inserts worn by Mary Julia Allman Doxtater in 1901 (1985.0042).

James R. Belford: 3-piece turquoise-blue dress made and worn by Jenny Williams Stevenson of Brooklyn, New York, and a black lace shawl both 1860-74 (1982.0646).

H. K. and Vesta Hartwell Bell: iron and brass buttonhole cutter used by Helen Barber Hartwell, a tailor of men's clothing, 20th century (1985.0031).

Mrs. Alfred Bendiner: cymbalom labeled Schunda Venczel Jozsef of Budapest, Hungary and Joseph Matyas of New York, ca. 1900 (1984.1065).

James C. Benfield: "Musicwriter" musical typewriter made by R. C. Allen, ca. 1954 (1984.0914).

Frances J. Berggren and Judith E. Miller: cornet with mouthpiece and 4 tuning shanks in original case, made by Antoine Courtois of Paris, France, late 19th century (1981.0538).

Edward L. Bernays: pamphlet titled Mass Psychologist about Mr. Bernays written by Henry F. Pringle, February 1930 (1984.0582).

Linda Besade: 2 polo balls of bamboo and a polo ball of plastic (1984.0611).

Edward J. and Millicent R. Best: patch-and-star pattern pieced quilt and a piece of pillar-printed cotton fabric, 19th century (1985.0223).

John A. Betcher: set of drafting instruments, a coordinate window, protractor, triangle, and map measure, all 1906, and a slide rule with instruction pamphlet, 1936 (1982.0386).

Charles F. and E. James Bevan: woman's brown alligator leather handbag and change purse, 1930-42 (1984.0349).

Mary T. Beyer: burgundy-rose faille bridesmaid's dress with matching hairpiece and shoes, 1955 (1984.1139).

Countess Mona von Bismarck: silk-embroidered cotton quilt and 4 samples of painted silk fabric (1981.0955).

Bivona Surgical Instruments Inc. (through Sharyn Chapkowski): 2 endotracheal tubes and a tracheostomy tube (1982.0216).

William McC. Blair, Jr.: woman's mink fur coat, 1974 (1983.0861).

Mrs. William McC. Blair, Jr.: woman's coat, blouse, skirt, and scarf ensemble designed by Chanel, 1978 (1983.0177); 2 woman's bathing suits, 2 blouses, 2 pairs of sunglasses, a hat, coat, and 3-piece suit, 1975-83 (1983.0806).

Mrs. William W. Bland: 10 pieces of clothing designed by Harvey Berin, Galanos, Adele Simpson, and Ben Zuckerman, 1955-60 (1982.0214).

Susan D. Bliss: 2-piece black dress with crochet and embroidery work, ca. 1925 (1982.0246).

Charles Blitzler: 166 U.S. mint postage stamps in panes and blocks (1983.0031).

Blue Chip Software, Inc. (through Ilene Slapin and James G. Zuber): "Millionaire" and "Tycoon" computer games, ca. 1983 (1984.0970).

Lydia H. Bodman: woman's 2-piece pink silk dress, ca. 1895 (1983.0092).

Mrs. A. C. Bonebrake: pink sequined and beaded dress purchased by Mrs. Bonebrake in Philadelphia in 1925 (1983.0099).

Peter N. Borsi: 2 Century printing frames, 2 Cornell lens hoods, 2 negative

numbering devices, a Victor Fotoflash holder, Eastman foot switch, Durst Duomat autofocus enlarger, tripod, and an enlarging easel (1981.0913).

Mrs. Gertrude M. Bostedt: U.S. Navy enlisted man's dress blue uniform jumper, trousers, neckerchief, and flat hat worn by Arthur L. Bostedt while serving aboard the USS Canandaigua during WW I (1983.0447); man's 2-piece knit bathing suit, 1921, and a woman's wool knit bathing suit, 1925-26 (1984.0390).

Clare Shenehon Boyd: 18th-century German stoneware pitcher with pewter lid attached and a 19th-century red earthenware mug made in New England (1981.0701); 18th-century English gin glass and wine glass, 5 pitchers, 2 dishes, a pan, and a mug of 19th-century American or English ceramic manufacture, an English wine glass, ca. 1840, and a late 19th-century glass juicer (1984.0048); 3 late 18th-century English creamware teabowls and saucers (1984.1114).

Helen King Boyer: 15 intaglio prints and a chiaroscuro woodcut print by Helen King Boyer, 10 drypoint prints and 2 aluminum plates by Louise M. Boyer, and 4 etchings by Ernest W. Boyer (1984.0777); 3 engraved aluminum plates for drypoint prints by artist Louise M. Boyer (1985.0097).

Neil A. Boyer: 27 pieces of photographic processing equipment, 24 photographs and mounts, and 11 cameras, attachments, and apparatus, all from the collection of Lewis E. Boyer, late 19th-early 20th century (1981.0904).

William P. Bradley: 12 WW I posters (1984.0217).

David K. Bragg: automatic temperature controller made by Draper Manufacturing Company of New York, 1887 (1984.0386).

Arthur B. Briskman: 3 Cibachrome prints of the Brooklyn Bridge taken at late afternoon, twilight, and evening by Paula Barr on December 8, 1982 (1984.0572).

Mary Eve Brockman: oil portrait of Rosalynn and Amy Carter by Thornton Utz (1980.0065).

Suzanne Brose: Cibachrome print of the Queensboro Bridge taken by Paula Barr, 1982 (1984.0571).

Mrs. Helen E. Brown: black veil of tambour-embroidered net, 1840-60, and a white chantilly lace barbe (1982.0291).

Jerold E. Brown, Ph.D.: 2 Keramos yearbooks of East Liverpool High School in East Liverpool, Ohio, 1928 and 1929 (1984.0646).

Joan S. Brown: woman's 2-piece ivory silk dress, ca. 1867, a pair of drawers, 1880-1920, combination teddy, ca. 1930, and a man's Panama hat in its original box, 1920-50 (1983.0097).

Winifred M. (Lindsey) Brown: "Grand Army of the Republic Veterans" button worn by Thomas Fitzgerald, post Civil War (1984.0580).

Mrs. Beatrice Bryant: 2 horse harnesses, 2 ox yokes, 2 milk cans, an egg carrying box, buck saw, sauerkraut maker, pitchfork, potato cutter, broadaxe, and an adze (320030).

Mr. and Mrs. Oliver V. Bucklen: 2 linen sheets, one embroidered "Mary - 1843 - Nissley" and the other "MN," and a Jacquard-woven coverlet inscribed "J. Brosey 1841" and "M. Nissley" (1984.0247).

Jeanne Bultman: ice-blue silk satin evening gown first designed by Charles James in 1929 and made for Mrs. Bultman in 1976 (1983.0176).

George E. Burch, Jr., M.D.: 159 medical instruments including radioactive tracing, calorimetry, and circulation instruments from work pioneered by Dr. Burch and historic electrocardiographic equipment (1980.0186).

James A. Burgel: one-quarter scale model of a dilapidated mobile home with fully equipped interior titled "El Rancho Encantado, Mobile Homesteading,

U.S.A." made by Mr. Burgel in 1982 (1984.0084).

S. Joan Burk: journal kept by Guy Thomas Ricketts while serving aboard the USS Nevada during WW I (1983.0603).

Frank C. Buxton, M.D.: green surgical scrub shirt and trousers, 1982 (1982.0283).

Jane M. Cahill, Virgil Kauffman, and Harry Tubis: stereoscope, lens, shutter, and 20 stereographs and volumes of documents detailing the careers of Arthur Brock, Jr., Norman H. Brock, and Major Edward H. Cahill who pioneered aerial photography and developed photogrammetric mapping (320769).

Betty Jane Campbell: infant's lace cap, 1899, 4 girl's dresses, 2 slips, and a pair of panties, 1921-22, and 2 man's handkerchiefs, 1900-36 (1984.0294).

Heather H. Campbell: 6 items from a U.S. Navy enlisted man's dress blue uniform worn by Albert G. Bouton and 4 photographs of Mr. Bouton and his shipmates aboard the USS Illinois, 1901-9 (1983.0409).

Cannon Mills Company (through Edward L. Rankin, Jr.): white Cannon towel, 1930s (1984.1057).

Custer T. Carland and Custer T. Carland: U.S. Navy Model K steam launch engine, 1918 (1984.1092).

Amy Carter (through Rosalynn Carter): doll house brought by Miss Carter from Georgia and played with in the White House (1981.0405).

Mignon Casselberry: Ronan Method 5-piece drafting tool, original manuscript instruction book, and a 2-piece dress made using the Ronan Method all invented and made by Mrs. Casselberry (1981.0430).

Lee M. Cattell (through Estell S. Cattell): 15 artifacts of U.S. Navy enlisted man's uniforms, 1950-83 (1983.0456).

Babette Potter Chadwick: woman's cotton and silk white dress, 1904-5 (1984.0695).

Stephen L. Champlin: 10 perforated vent tiles and 4 low-relief decorated tiles made by Calco Tile Manufacturing Corporation of South Gate, California, 1923-34 (1982.0667).

John W. Chesley, Jr.: 2 woman's dresses, wrapper, coat, wool petticoat, belt, and a Red Cross veil, late 19th and early 20th century (1983.0385).

Children's Hearing and Speech Center, Children's Hospital National Medical Center (through Gilbert R. Herer): 12 hearing aids and aid parts of various types dating from the 1950s to the present (1980.0737).

Valentine Z. Chilk and Claire Cardozo Imburg: ivory glove darner with needle compartment, 19th or early 20th century (1983.0863).

Government of the Republic of China, The Philatelic Department, Directorate General of Posts (through E. K. Chien): 72 mint stamps, specimen stamps, and first day covers of the Republic of China (1983.0027).

Christmas Seal League of Southwestern Pennsylvania (through Thomas J. Hilliard, Jr.): 1,872 Christmas Seals which make up 25 complete sets of seals for the years 1958-82 (1982.0776).

R. B. Churchill: girl's tan leather gloves, 1888-92 (1985.0043).

Sylvia J. Churgin: 161 phonograph records (1984.0610).

E. Clain-Stefanelli: 10 "Bungtown" imitation English copper half pennies used in the American colonies, 18th century (1984.0485); 26 credit cards (1984.0606).

David Sanders Clark: set of buttons for the gray summer uniform of U.S. Navy officers during WW II (1984.0001).

Philip W. Clark: data transaction recorder with associated documentation (1984.0932).

Elsie Tytla Claypool, M.D.: 9 kerosene lamps, a hanging lamp, marine lantern, and a wooden floor candleholder, all late 19th to early 20th century (1983.0729).

C. D. Clemente: 5 man's suits by designers Bill Blass, Lanzetti, Baker Clothes, Dimitri, and Pierre Cardin, 1970-75 (1984.0055).

Shirley G. Cochrane: white formal shirt worn by Henry C. Kearns at his wedding on December 12, 1916 (1983.0648).

Estate of Martha Jane Ballard Cody (through Thomas N. Brosmer): necklace of woven hair, 1840-80, and a brooch with a lock of braided hair encased in glass, 1840-60 (1983.0800).

William H. Cohrs: wooden bowl with dark relief band on outside rim recovered from the wreck of the propeller steamer Vernon which sank in Lake Michigan on October 29, 1887 (1984.0398).

The Coleman Company, Inc. (through H. J. Pfountz): double-mantle kerosene lantern with mica windows and bail handle, ca. 1919 (1984.1096).

Emerson L. Coleman, Jr.: man's "dashiki" West African shirt and a green U.S. Army shirt, 1975 (1984.0362).

Wm. Comfort: control panel and flow control valve from a Specialmatic automatic machine tool control system, ca. 1960 (1984.0498).

Carl W. Condit: 162 linen tracings and drawings on paper of the framing for the Woolworth Building and the West Street Building in New York City (1984.0675).

Government of the Cook Islands, Philatelic Bureau: 22 mint stamps, souvenir sheets and first day covers of the Cook Islands (1983.0028).

Dr. B. Franklin Cooling: book titled Benjamin Franklin Tracy; Lawyer, Soldier, Secretary of the Navy, 1889-93, completed in 1969 (1983.0196).

Priscilla H. Corbett: infant's cap and pair of shoes, ca. 1896, woman's Quaker bonnet, 1850-74, 2-piece dress, 1904, and a "pill box" hat, 1950s (1983.0805).

Vincent L. Corrado: Friden calculating machine, Friden calculator and adding machine adjustment manual, Monroe service bulletin #450 and 4 Monroe schematics (1983.0475).

Hazel Cory: black pill box hat designed and made by Mabelle Parks of Tulsa, Oklahoma, 1958 (1984.0832).

Sherwood Costen: woman's black silk cape, 1850-55 (1983.0722).

Richard C. Cote: marble-topped table on a carved wooden pedestal base made by Edmund T. Lamb of Boston in the 1880s (1984.1075).

Elizabeth W. Covell: 5 woman's dresses, a 2-piece suit, and a belt, 20th century (1982.0292).

Joyce W. and Loren D. Creede: 2 woman's parasols, pair of stockings, and a shawl, 19th century (1984.0090).

CSL/WEC Associates, A Joint Venture (through Carl W. Bleicken): 3 cornice sprinklers, 2 water pressure gauges, a variable pressure alarm valve, and a hand-operated pressure pump, all part of a Grinnell Automatic Wet Pipe Sprinkler System, ca. 1890 (1984.0396).

Mary R. Daily: 22 items of insignia and memorabilia and a scrapbook of official naval correspondence, letters, and newspaper articles reflecting the U.S. Navy career of WAVE officer Mary R. Daily, WW II-1951 (1982.0658).

Monta Lee Dakin: tube of Run-R-Stop used to repair woman's stockings, 1940s (1984.0477).

Mickey Dale: booklet of coupons from the Leckie Fire Creek Coal Company store dated October 13, 1916, and a railroad ticket for passage from Glen Alum to Iaeger, West Virginia on the Norfolk and Western Railway dated

June 30, 1918 (1981.0002).

Caroline S. and John C. Davies: 129 maps, drawings, surveys, chromolithographs, prospectuses, and agreements from the Hudson Suspension Bridge & New England Railway Company including its Articles of Incorporation and mortgage, 1869-1905 (1984.0244).

Mrs. Chalmer L. Davis and Chalmer T. Davis: infant's white christening gown and slip and a photograph of Mr. Davis wearing the gown, ca. 1887 (1984.0904).

Dr. Frank B. Davis: 28 items making up dress blue, dress white, and dress khaki uniforms worn by Dr. Davis while a captain in the U.S. Coast Guard Reserve, ca. 1965 (1983.0460).

George C. Davis: Monroe Epic 3000 programmable printing calculator with ribbon and 2 instruction booklets and a Curta II calculating machine with 2 instruction booklets (1983.0471).

Martha B. Davis: 9 perfume bottles, 2 lingerie cases, 2 parasols, a Hattie Carnegie beret, comb, vanity case, glove stretcher, rouge box, and a coin purse, late 19th and early 20th century (1983.0718).

Constance R. Dawson: autographed quilt top presented to Rev. Bernard H. Nadal by the women of his church in Virginia, dated 1847 (1983.0866).

P. W. Deafenbaugh, Jr.: 32 medical items (1984.0562).

Ellery Denison: 4 tintypes and 4 cartes de visite (1984.0912).

Government of the Kingdom of Denmark, Ministry of Public Works, General Directorate of Posts and Telegraphs: 540 mint stamps of Denmark and the Faroe Islands (1984.0267).

Richard J. De Prez: Universal quart capacity vacuum bottle with glass lining made by Landers, Frary and Clark of New Britain, Connecticut, ca. 1917 (1984.0886).

Eleanor Dickinson: 68 artifacts associated with the Pentacostal revival of the mid-20th century (316429); 5 religious signs and boxes used in evangelist churches and 2 aluminum signs, a concrete cross, and a concrete heart made by Brother Harrison Mayes, 20th century (322671); walking cane with religious messages written on it, adapted by Brother Harrison Mayes of Middlesboro, Kentucky, and a box made by Dewey Chapin of Jolo, West Virginia, to hold poisonous snakes during religious services (1978.0344).

William J. Dickman: portfolio of 15 collotypes published in Berlin in 1918 after lithographs by Daumier, 12 miscellaneous prints, and 2 pencil drawings (1984.0816).

Barbara Dickstein: pogo jumping stick and a bongo balancing board, 1950s (1984.1017).

Sidney Dickstein: 10 examples of mid-20th-century man's and woman's clothing (1982.0446).

Wilton S. Dillon: T-shirt and bumper sticker from the Communications Workers of America in support of Walter Mondale, 1984 (1984.0448).

Mark E. Dixon: man's T-shirt announcing the 18th Airborne Corps' parachute club's participation at a beach festival which was "CANCELLED DUE TO THE INVASION OF GRENADA" in 1983 (1984.0587).

Peter Dorobish: 2 Hoe Corporation pipe wrenches (1984.0453).

Gladys C. Dougherty: 2 handmade bird pins made during WW II in a relocation camp in Utah for persons of Japanese descent (1977.0149); 4 cocktail goblets, a decorated tumbler, and a perfume bottle with stopper and a vase with Art Deco decorations, all 20th-century glass (1984.0288); 2 engraved steel plates for printing visiting cards, 1942 (1984.1039).

Ben M. Douglas: 2 notes of payment due to Stephen Girard to be paid to banks

in Philadelphia, Pennsylvania in 1806 (1979.1055).

Dow Corning Corporation, Medical Materials Marketing, Communications (through Robert G. Dean): obstetrical vacuum cup (1982.0444).

Eleanor E. Doyle: girl's white cotton dress, 1905-6 (1982.0252).

Pamela A. Dyer: black and white photograph of the crew of the USS Michigan, WW I (1983.0486).

Dynamic Software Design (through Alexander Leavens and Shirley A. Russell): "Wombats I: Gazumba the Great and The Wombats of Borozoa" computer game, 1984 (1985.0003).

Ray Eames: man's brown leather shoes, 1940-55 (1983.0344).

Mary Eastwood: 12 photographs and papers relating to the formation of the National Organization for Women, 1960s (1984.0392).

S. Arlent Edwards, Jr.: theatrical trunk (1983.0218).

Electronic Arts (through William J. Kaiser): "Archon," "M.U.L.E.," "Murder on the Zinderneuf," "One-on-One," "Pinball Construction Set," and "The Seven Cities of Gold" computer games, 1982-84 (1984.0969).

Wm. J. Ellenberger: 19 drafting and drawing instruments and 3 slide rules with 6 instruction pamphlets for using slide rules, early 20th century (1981.0933).

John T. and Sheila Elliot: collapsible "Kiddie-Koop" crib made by Trimble Nurseryland Furniture, Inc. of Rochester, New York, 1930 (1984.0977).

Lucia K. Englehart: 22 pieces of clothing from the weddings of 4 generations of Mrs. Englehart's family, 1862, 1894, 1918, and 1947 (1981.1069); woman's black silk mantle with beaded lace trim, 1878-90 (1982.0125).

Anita G. English, Lilla Cabot Levitt, and Elizabeth S. Lyon: 7-piece silver tea service presented to Commodore Oliver Hazard Perry by the citizens of Boston on September 10, 1813 in honor of his victory over the British in the naval battle of Lake Erie (1985.0121).

Mary Epremian: woman's scarf decorated with star bursts and rhinestones designed by Vera in 1948 (1983.0341).

EPYX, Inc. (through Michael V. Katz): "Dragon Riders of Pern," "Oil Barons," "Temple of Apshai," "Curse of Ra," and "FAX" computer games, 1982-83 (1984.0993).

Celia K. Erskine: boy's white dress in Colonial Revival style, ca. 1884 (1982.0421).

Elliot P. Evans: wood-slat folding chair, ca. 1880 (1983.0348).

Timothy Evans: pair of woman's black silk net mitts, 1840-65 (1984.0467).

EVI Equipment, Inc. (through Joan Bedgood and Charles F. Payne): tier lift for materials handling made by the Lakewood Engineering Company of Cleveland, Ohio, early 20th century (1980.0161).

Col. Willis L. Fairbanks: "Chainomatic" analytical balance made by Christian Becker, Inc. equipped with a chain adjustment system to eliminate using small fractional weights, ca. 1941 (1984.0981).

Anthony P. and Martha E. R. Falbo: letter to Mr. Falbo from Dwight D. Eisenhower dated February 20, 1948, concerning Brotherhood Week (1984.0579).

Fantastic Feminist Enterprises, Inc. (through Joanne McQueen): 2 T-shirts "Fantastic Feminist" and "Macho is Sicko" (1983.0803).

Thomas Farnquist: steam whistle from the wreck of the propeller vessel Indiana which sank in Lake Superior on June 6, 1858 (1982.0241).

Government of the Faroe Islands, Post Office: 228 mint stamps and first day covers of the Faroe Islands (1984.0269).

Mr. and Mrs. Frank D. Faulkner: woman's white silk blouse, 1912-16 (1983.0038).

Federal Reserve Bank of New York (through Ralph A. Cann III): Sangamo Electric Co. kilowatt hour meter (1981.0513).

The Honorable George J. Feldman in memory of Marion Schulman Feldman: 2 woman's suits and an evening gown designed by Gabrielle Chanel, a 2-piece dress designed by James Galanos, and 2 pairs of beige shoes, 1960s-1970s (1983.0198).

Josephine E. Felton: woman's black seal skin muff and scarf, 1890-1910 (1984.0365).

Elizabeth J. Ferraro: pink satin stocking case with blue embroidered fan, 1951 (1984.1034).

Otto E. Fielder: 13 objects showing the development of an advertising premium of a pair of puppy and kitten salt and pepper shakers from drawing to finished product, 1950 (1985.0254).

Films and Filmscripts (through Earle B. Luby): videotape film shown and broadcast at the Democratic National Convention, July 10, 1972 (1983.0275).

Joan Orr Fink: woman's cap, hat, jacket, mittens, and parasol from the 19th century and a black dress, 1910-25 (1982.0584).

Bernard S. Finn: Wanamaker automatic electric portable sewing machine, 1920s (1984.0179).

Helen Louise Fitz-Gerald: anniversary volume celebrating 50 years of the Kubler & Niethammer paper mill and a plan of the mill's property in Kriebstein, Germany, 1906 (1984.0590).

Lorraine M. Fitzgerald: photograph of the Oldham Hand Bell Ringers of England dated February 8, 1867 (1985.0484).

Neil H. Folberg: 5 photographs by Mr. Folberg, 1971 (1984.1023).

LaVerne Hill Forbush: 6 lithographs and a collotype, 1839-46 (1985.0394).

Elverta H. Foster: 39 examples of 20th-century American art glass (1982.0315).

Government of the Republic of France, Administration des Monnaies et Medailles (through Monsieur le Directeur): 69 French medals (1978.2509).

Godfrey Frankel: 5 photographs of Brooklyn Bridge and a photograph of Williamsburg Bridge, all from the late 1940s (1984.0195).

Elinor L. Frankenfield: surgical kit used during the Civil War by Dr. Griffith Jones Scholl (1982.0604).

John Freund and David Porter: 3 posters and 2 pieces of artwork for the poster "Bedtime for Brezhnev" made by Mr. Freund and Mr. Porter (1984.0778).

Valeria K. Frost-Field: porcelain lamp base hand-painted with a scene of the Roman goddess Juno by Mrs. Field and her teacher, Margaret Abbot, in 1927, a shade, and a metal finial (1984.0726).

Helen-Marie Fruth: brooch with Florentine intarsia floral decoration, 1870s, amethyst, pearl, and gold link necklace, 1900-20, and a gold bar brooch with floral motif of turquoise and pearls and a photograph of Mary Leontine Gemp wearing the brooch, 1880s (1984.0364); cased ambrotype portrait of a man (1984.1095).

Hazel Wright Funke: woman's pink slip, 1938-42 (1983.0647).

Anne H. Ganz: quilted grey robe made for a wedding trousseau, 1867-85 (1982.0497).

Eleanor Belden Gatling and John W. Gatling: woman's black beaded dress and a red feather-trimmed mantle, 1880s (1984.1106).

Frank Gay: 5 studio portrait photographs of wedding party members, mid-20th century (1985.0208).

Edythe Robertson Geis: woman's blue silk and velvet dress, black parasol,

and a knitted cap, 19th century (1984.0920).

General Electric Company, Aerospace Controls and Electrical Systems Department, Aircraft Equipment Division (through Dr. Hermann Schmid): miniature digital voltmeter and an electronic digital slide rule, 1966-68 (1982.0609).

Government of the Federal Republic of Germany, Postal Administration: Christmas card with a first day cancelled stamp, 1981 (1984.0276).

Carol Gerson Graphic Design (through Carol Gerson): polling poster and T-shirt in support of Jesse Jackson as Presidential nominee from the Democratic Party, 1984 (1984.0494).

Carl S. Gewirz: man's suede jacket by McGregor, 1956 (1983.0720); late 19th- or early 20th-century needle lace banquet table cover with border design based on the 11th-century French "Bayeux Tapestries" (1985.0162).

Nancy Gewirz: 11 pieces of woman's designer clothes and accessories and 4 pieces of man's clothing, 1950s through 1970s (1982.0102); woman's multicolor patch suede jacket and a tan and brown handbag, 1970-75 (1984.0637).

Hazelle Gibbons: porcelain plate hand-painted in the "Dresden" style by Mrs. Gibbons and titled Fit for a Queen, 1978 (1984.0725).

Cora Ginsburg: man's white silk waistcoat embroidered with flower designs and sequins, 1780s (1984.0078).

William J. Glick: 2 collotype prints, ca. 1949, and a book titled William Edwin Rudge by Mr. Glick, 1984 (1985.0411).

John C. Goff: 3 military surplus prisms for use in telescopes, WW II period (1985.0327).

Lawrence I. Goldberg: "Goldberg's Pizzeria" neon sign (1984.0575).

Mrs. Richard D. Gordan: 74 pieces of infant's and girl's clothing worn by Mrs. Gordan's 3 daughters from 1951-65 and a girl's veil worn in 1937 (1980.0442).

Harry H. Gordon, M.D.: glass urine collection tube used for full-term infants, 1930s (1982.0445).

Prof. David C. Gossard: control box for the "Analogic Part Programming System" developed by Professor Gossard (1984.0212).

Greg Chandler Gove: 13 pieces of plastic dishes by the Beetleware Corporation of New York, ca. 1923 (1984.0331).

Mrs. Gordon Gray: 3 woman's dresses by American designer James Galanos, 1965-67 (1983.0105).

William C. Gray: 2 enamelled Massachusetts license plates, 1910 and 1911, and a Gray and Davis electrical switch box for car lights (1981.0631).

Lucille A. Grills: 7 stereographic views of Washington, D.C. (1985.0206).

Johanna Grimes: 12 cases of artificial teeth (312607).

Nicholas Grossman: Hewlett-Packard model 35 hand calculator with accessories, 3 owner's handbooks, and a manual of HP-55 mathematics programs (1982.0222).

Government of the Republic of Guinea, Philatelic Agency: 29 mint stamps of Guinea (1984.0270).

Ashley B. Gurney: 2,706 farming periodicals, late 19th and early 20th centuries (322603).

State Senator Robert A. Hall of Massachusetts in memory of his fellow Marines: set of 300 stereographic slides of WW I by the Keystone View Company, a book titled The World War Through the Stereoscope, and a viewer (1982.0403).

Conrad S. Ham: refined earthenware teapot and cover reproduced by Josiah Wedgwood & Sons, ca. 1871, from an original, thought to have been brought

to America by Elder Brewster on the Mayflower in 1620 (1983.0802).

T. Hanley: 3 paper notes and 2 plastic discs used by the Commonwealth Bank of Australia to train staff for the change to decimal currency in 1966 (1980.0987).

Addie E. Hayes: 15 sewing samples made by sewing instructor Nannie J. Taylor of Washington, D.C., 1935 (1983.0091).

Rudolf Henning: 3 Jew's harps made by Karl Schwarz of Austria, ca. 1983 (1984.0872).

Rochambeau A. Herosian: wooden slide rule with instruction sheet (1982.0244).

Mrs. Helen A. Hess: IBM electric typewriter Model D with 4 boxes of "Typits" interchangeable type bars (1984.0499).

Paul A. Higdon III: tinware "Little Brown Jug" with earthenware inner jug patented by Pearl H. Brainard of Macomb, Illinois on December 11, 1923 (1984.1102).

Josephine E. Hitchcock: Korona Series 5 camera with accessories and case, 3 photographs by Parkhurst, and 2 photographs by Laura Gilpin (1984.0665).

Ray Watkin Hoagland: rosewood grand piano made by Chickering & Sons of Boston, Massachusetts, ca. 1865 (1981.0625).

Pauline Stockton Hoff: 4 woman's fans, 1880-1920 (1983.0733).

John N. Hoffman (through Rev. Dr. James B. Parsons): 147 miscellaneous objects from 19th- and 20th-century political campaigns (1984.0589).

Holiday Inns, Inc. (through Jimmie D. Scott): Holiday Inn great sign written in Arabic on one side and Chinese on the other, 1975 (1983.0021).

Nina Holland: 2 pieces of oilcloth floor covering from a farm house in Westport, New York (1982.0525).

Edgar M. Holmes, M.D.: nasopharyngoscope developed by Dr. Holmes' father and manufactured by the Electrical Surgical Instrument Co. of Rochester, New York (1983.0741).

Catherine F. Hoopes: 10 cameras and a group of 28 photographic accessories (1982.0774).

Mildry S. Hopper: choker necklace of 10 strands of imitation pearls and rhinestones, 1906, and a black crocheted necklace, 1910-15 (1984.0543).

Elizabeth Horn: woman's ivory fan signed "A. Lawrence," 1890-1920 (1984.0239).

Dickran Y. and Viola D. Hovsepian: 9 mounted photographs by the Taber Studios in San Francisco, California (1983.0759).

Richard H. Howland: pier table with marble top and a mirror from floor to top, made in Baltimore, 1830-40 (1984.1121); garden settee of curved and interwoven steel wire, 1875-1900 (1984.1136).

Elizabeth B. and Richard S. Hubert in memory of Mary Wilkins Harper: sterling silver trophy cup won by Mary W. Harper on June 25-26, 1910 at the Annual Run of the Automobile Club of Philadelphia (1978.0364).

Huffy Corporation (through R. Wieland): Sahara model woman's 3-speed bicycle, the 30 millionth Huffy bicycle made, 1979 (1979.0684).

Milton C. Hugg: 16 Christmas tree light bulbs in shapes of animals, fruit, flowers, and a Santa Claus, made in Japan, 1925-35 (1984.1042).

Dard Hunter II: 4 sheets of watermarked paper made from original molds from the Dard Hunter Mill (1985.0427).

Heather Huyck: poster advertising an "ERA Walk-A-Thon" starting at Lafayette Park in Washington, D.C. on August 22, 1982 (1984.0469).

Edna Vogt Hyatt and Edward L. C. Vogt: 51 pieces of mid-19th-century American "Argus" or "Thumbprint" pattern pressed glass (1984.0327).

Clare Cardozo Imburg: silver finger shield (1983.0865).

INFOCOM, Inc. (through Albert Vezza): "Planetfall," "Sorcerer," "Deadline," and "Zork I" computer games, 1982-84 (1984.0878).

Mary Inman: 2 pamphlets, a newsletter, bookmark, periodical, leaflet, and a photocopied letter all documenting Ms. Inman's political beliefs and opinions (1980.0473).

Instrument Society of America, Philadelphia Section, Inc. (through Horace Richter): 67 automatic control instruments (1983.0006).

International Games, Inc. (through Joseph A. Cusimano): "UNO: Wild Tiles" board game, 1983 (1984.0968).

In Touch Networks, Inc. (through Jasha M. Levi): man's black cotton T-shirt with silver lettering and raised Braille dots spelling "In Touch," 1983 (1983.0612).

Invacare Corporation (through Evan J. Kemp, Jr. and A. Malachi Mixon III): chain drive hand-propelled tricycle wheelchair built in 1928 and 2 modern wheelchair models, one hand-propelled and one power propelled, ca. 1980 (1983.0306).

The University of Iowa, School of Art and Art History (through Wallace J. Tomasini): "Philadelphia" bent iron hand press manufactured by Adam Ramage in the 1840s (1984.0427).

Government of the State of Israel, Ministry of Communications, Philatelic Services: 9 first day covers of Israel (1983.0133); 47 first day covers, 3 mint stamps, and a souvenir sheet of Israel (1984.0271).

Virginia B. Jachowski: beadwork necklace dated 1833 and a quilted white cotton petticoat, mid-19th century (1983.0868).

Mrs. Clair Jackson: tintype portrait of a man (1984.0615).

Steve Jackson Games (through Steve Jackson): "Car Wars," "Illuminati," and "Ogre" board games, 1982 (1984.0960).

Helen Danow Jacobs in memory of her father, Walter Danow, Hoe Company Machinist: machinist's tool chest with 145 accessories and related material belonging to Walter Danow, early 20th century (1984.0625).

Charlene James: man's T-shirt from the Orofino Lumberjack Days of Orofino, Idaho, 1980 (1982.0727).

Jantzen Inc. (through Charles Coe): 16 items of man's and woman's sportswear by Jantzen, 1983-84 (1984.0639).

Vida Hays Jarvis: gold thimble in red leather and brass case, late 19th century (1985.0379).

Joyce L. and Robert G. Jensen: 2 pairs of U.S. Army spurs, WW I (1977.0823).

Government of the Island of Jersey, Department of Postal Administration: picture postcard marking the 10th anniversary of the Jersey Post Office and a booklet of stamps from Jersey (1979.0956).

Alex R. Johnson: gold tenth stater of Kyrenaica in North Africa, ca. 435-331 B.C. (1984.0423).

Robert J. Kahn: set of 6 English pearlware teabowls and saucers decorated with a polychrome handpainted "vase and flower" motif, 1830-50, and an English copper lusterware pear-shaped pitcher decorated with low-relief polychrome fruit, 1820-40 (1984.0027).

Alvin R. and Marjorie S. Kantor: undivided 70% interest of the Benjamin Franklin General Post Office Account written entirely in Mr. Franklin's own hand and includes 8 of his signatures, 1770-72 (1982.0786).

Andre Kappes: mint postage stamp of Algeria, 1940 (1984.0437).

Elizabeth de B. Karrick: penciled floor plan and elevation of the shed on the Southmayd estate in Stockbridge, Massachusetts, ca. 1874 (1984.1030).

Kennebec Log Driving Co. (through William L. Philbrick): logging bateau used in Maine equipped with 23 related tools (1977.0685).

Kathryn D. Kent: black silk dress with brown satin ruffles and trim made and worn by Lydia Mosher Kent at her wedding and a white petticoat worn with the dress, 1883 (1984.0662).

Susan L. Kentoff: 15 pieces of woman's dance and sport clothing, 1974-83 (1984.0190).

Christine Carlson Kerns: 2 Shirley Temple brand girl's dresses, ca. 1936-38 (1983.0374).

Claudia B. Kidwell: ready-made woman's corset labeled Royal Worcester Corset Co., 1840-60 (1982.0098); 9 woman's hats, 4 girl's bonnets, a woman's wrapper, and a petticoat, late 19th century, a woman's skirt, ca. 1910, and a woman's tote bag, bathing suit, pantsuit, bra-slip, dress, hairpiece, and a man's bathing suit, 1958-82 (1984.0250).

Bernard M. Kilbourn: 3 buttons and 2 posters with the slogan "Stop the Draft," 1980 (1980.0607).

Kilburg Geochron Corporation (through James Kilburg): Geochron global time clock, 1983 (1984.0731).

Kirsch/Hamilton Associates (through David K. Peters): "Prisma" electric clock with seconds indicated by a disc that changes color as it rotates around the face, ca. 1979 (1982.0324).

Frank E. Klapthor: white ceramic vase with oriental designs of blue and gold made in China for export, ca. 1780 (1984.0480).

Alan D. Knez: St. John's College High School ROTC cadet's overcoat, coat, and button, 1967-71 (1977.0822).

Ellen Kominers: woman's T-shirt used as a wedding invitation, dated September 25, 1983 (1984.0189).

William Kominers: man's T-shirt inscribed "Super Hogs, Rose Bowl, Pasadena, California, 1983" (1983.0725).

Janet Meade Komoroske: cotton patchwork "Sunburst" quilt, 19th century (1984.0211).

Frank Kopf: experimental cathode ray tube (1982.0109).

Mary-Anne K. and Peter S. Koromilas: retouching stand for negatives. (1984.0911).

Alice Kunkle: woman's gray satin and lace dress, 1915-17 (1983.0848).

Dominick Labino and The Honorable Sidney R. Yates: glass plaque with relief bust of Harry S. Truman done by Mr. Labino in 1983 (1984.0367).

Gloria La Fay: woman's pink rayon dress, 1966-69 (1983.0382).

Lamar Chamber of Commerce (through Daniel Arnold and Gerald W. Gilkey): ceramic plate commemorating the centennial birthday of Harry S. Truman, born in Lamar, Missouri on May 8, 1884 (1984.0482).

J. P. Lambooy, Ph.D.: microbalance made by Christian Becker, Inc., radioactive scaler made by Radiation Instrument Development Laboratory, and a flow counter made by Radiation Counter Laboratories, all ca. 1950 (1985.0214).

Benjamin T. Layton: 4 WW I medals, 3 WW II insignia, and a name plate (1978.0039).

James E. Lee: 1920 lawn mower (320043).

James R. Lee: white plastic duckpin with red band, 1984 (1984.0783).

The James Leffel and Company (through A. H. Van Wormer): bronze model of a water turbine with draft tube and a plaster model of a turbine blade (1981.0048).

Barbara Lewis Lehmann: tractor-powered chain saw with parts, ca. 1950 (1981.0281).

Bruce Leighty: 2 woman's pantsuits, a 6-piece ensemble, 3-piece ensemble, 3-piece dress, and a blouse, 1970s (1984.0291).

Ali Leonetti: 8 tools from Mr. Leonetti's locksmith and grinding shop which operated in Atlantic City, New Jersey from 1932 to 1984 (1984.0621).

Eula B. Lewis: 5 aprons, 3 collars, 3 cuffs, 2 dresses, and a black velvet neck band, all parts of housemaid's uniforms, 1920-40 (1984.0684); 5 lace lampshade covers, 20th century (1985.0033); 10 Easter animal figure ornaments, 2 jointed wooden dolls, a musical doll, black composition doll, and a stuffed mohair polar bear, 1900-20 (1985.0104); in memory of Mrs. Ethel Gunton Douglas: 275 examples of lace, embroidery, and woven-patterned fabrics, 12 damask napkins, 6 damask tablecloths, and a painted tapestry, early 19th to early 20th century (1984.0111).

Marie K. Lewis: white cotton nightgown worn by Mary A. Gundersdorf Baer as part of her wedding trousseau, 1876 (1983.0372).

Samuel S. Liberman: Gem razor in its original box with extra blades and an instruction sheet, 1940-60 (1983.0253).

Kathryn B. Lindeman: Universal vacuum bottle made by Landers, Frary & Clark of New Britain, Connecticut, ca. 1916 (1984.1099).

Lindenmeyr Paper Corporation (through Leonard B. Schlosser): half-size scale model of the paper making machine invented by Nicholas Louis Robert, ca. 1800, made from Robert's patent specifications in 1984 (1984.0978).

Corporation of London, St. Bride Institute, St. Bride Printing Library (through James Mosley): 3 pieces of hand-cast type dated 1677, 1746, and 1761 (1985.0182).

Thomas S. Lough: telephone answering machine, 1950s (1982.0264).

Susan L. Lowther: 2 girl's skirts, a pair of shoes, pair of tights, blouse, crew neck sweater, and a turtle neck sweater, 1982-83 (1984.0505).

Steven Lubar: "Minnequa Imported Flax Water Bag" with aluminum closure made by Pueblo Tent & Awning Co. of Pueblo, Colorado, 1925-49 (1984.0810).

Nadine H. and Walter D. Ludwig: violin made by J. B. Guadagnini of Milano, Italy, dated 1752 (1984.0769).

Bertha Lyon: woman's leopard skin pill box hat, 1960 (1984.0407).

Margaret S. McComb: child's silver thimble, 19th century (1984.1062).

Ruth Ellen McCullough: partially constructed corset cover with unfinished embroidery, 1915-25 (1982.0596).

McDonald's International (through Thomas A. Gruber): McDonald's restaurant sign in Japanese (1983.0020).

Carolina Sheridan McElroy: 19th-century garden harrow (1978.2372).

Robert N. MacDonald: 6 experimental samples of and 4 products made from Delrin, the first usable polymer of formaldehyde, samples developed in the 1950s, and products made in the 1980s (1985.0281).

Marguerite MacMahon: "Polka Spider Web" lace-making kit containing 11 wheel lace tools and accessories, 20th century (1985.0377).

Larry Magid: Jennings "Sportsman" model pinball machine, 1934 (1984.0607).

Robert J. Maier: electric cable automobile lift built by Walker Manufacturing Company of Racine, Wisconsin and used 1933-65 (1983.0504).

Vivian Maine: Correcteyescope with slides and case manufactured by Keystone View Co. (1980.0711).

Kenneth Maley: 51 newspapers, T-shirts, buttons, stickers, pamphlets, and mailings concerning the Gay Rights movement in Dade County, Florida (1984.0749).

Claudine B. Malone: 3 shopping bags, 2 woman's T-shirts, and 2 pairs of panties with their original containers, 1980-84 (1984.0361).

Jane Marcks: porcelain plaque hand-painted with a portrait of a young girl done by Ms. Marcks in 1980 (1984.0723).

Lucy Martin: steel leg braces with padded waist attachment made by F.

Kaufman Surgical Co., ca. 1930 (1985.0041).

Massachusetts Institute of Technology, Lincoln Laboratory (through John A. Kessler): X-626 klystron tube (1983.0311).

Frank M. Masters, Jr. in memory of Frank M. Masters, Sr.: 19 woodworking planes, a drawshave, scraper, and a try square (1978.0205).

Rhoda Lowenberg Maurice: pair of white stockings worn by Rae Hirsch Lowenberg at her wedding on December 15, 1903, and a woman's green net mantle beaded in floral patterns, 1906-10 (1984.0249).

Mayfair Games, Inc. (through Darwin P. Bromley): "fic-tio-nar-y" board game, 1984 (1984.0985).

Edith P. Mayo: 8 buttons, 2 pennants, 2 decals, a 2-part letter, bumper sticker, invitation, and a T-shirt all from the 20th anniversary "March on Washington," August, 1983 (1983.0544); woman's bathing suit made by Jantzen, 1955-57 (1983.0646); program from "A Call to Equality, A Service For Equal Rights" held at the Cathedral Church of Saint Peter and Saint Paul in Washington, D.C. on May 9, 1982 (1984.0470); 5-piece "Common Cause Mailing, People Against PACs," 1984 (1984.0657).

Elizabeth Medinger: box of archival materials from the work of Dr. Atherton Seidell (1977.0875).

Dr. James F. and Sally M. Mello: boutonne woven counterpane (1984.0488).

Robert T. and Rose S. Merriam: silk applique counterpane in leaf and scroll designs made by Jane Alcock, ca. 1730 (1985.0154); marriage license dated December 3, 1786, power of attorney dated April 9, 1798, certificate of membership in the Mercantile Library of Boston dated 1835, and an issue of the Philadelphia Public Ledger newspaper dated March 25, 1836 (1985.0470).

Micro Lab, Inc. (through Susan Goldberg): "Death in the Caribbean" computer game, 1983 (1984.0954).

Robert Miley: 2 pairs of man's high-heeled platform shoes in brown leather and black and white patent leather, both by Thom McCann, 1974 (1984.0348).

Charles W. Millard III: copper tray inscribed with the wedding invitation and a photograph of 5 women from the wedding party of Constance Emily Keppler and Charles W. Millard, Jr. on April 27, 1928 (1984.0409).

Dorothea S. Miller: 2 woman's dresses, 2 petticoats, a robe, and a hat, all mid-20th century (1984.0559).

Mabel Wooster Milstead: woman's petticoat with ruffles and lace, 1870-85 (1982.0436).

Milton Bradley Company, Inc. (through Michael R. Meyers): "Mystery Mansion," "Bargain Hunter," "Candy Land," "Easy Money," and "Ripley's Believe It or Not" board games and a "Simon" electronic game, 1974-84 (1984.0874).

Government of the Principality of Monaco, Postal Administration: 140 mint stamps and 5 souvenir sheets of Monaco (1984.0272).

Ozella O. Montague: beaded and sequined evening dress, 1909-13, and a brocaded evening coat with white fur trim, ca. 1925 (1982.0289).

University of Montana, School of Forestry, Montana Forest and Conservation Experiment Station (through Benjamin B. Stout): 11 pieces of surveying apparatus (1984.0636).

John D. Montgomery: case for a 5-string banjo made by William Fitch of Lansing, Michigan after 1905 (1981.0865).

Fran L. Moss: 2 woman's T-shirts made to raise money for New York's Central Park and California beaches and a woman's T-shirt that says "I Love the Big Apple" (1984.0812).

Galva May and Paul W. Mowrey: Class B Liberty standardized U.S. Army truck, 1918 (1981.0651).

Frances M. Rudell Moyer: 4 pieces of infant boy's clothing worn by William Rudell, 1907-12, a silver butterfly brooch, 1890-1910, and a necklace made of seeds, 1914 (1983.0375).

Lt. Col. William B. Mozey, Jr.: pewter button for an infantry officer's uniform, post-1854 (1980.0641).

Mrs. John H. Murray: perfume bottle and powder box both of clear yellow glass, 1921 (1983.0654); early 18th-century wood and pewter schoolmaster's rod (1984.0697); 19th-century portrait medallion and an early 20th-century pitcher, butter tub, and pair of salt and pepper shakers, all of coarse earthenware American manufacture (1985.0093).

E. P. Muth, Ph.D: 13 pairs of spectacle frames, a box of 12 lens blanks, and an automatic eyeglass holder (1981.0828).

Susan H. Myers: white ceramic beverage filter patented by Harry B. Wolper on May 22, 1945, and manufactured by Kent Products Company of Chicago, Illinois (1984.0779).

Mrs. Olaf J. Mysse: 4 pension certificates and 2 U.S. Army discharges granted to George T. Hulme, dated 1898-1930 (1978.2163).

National Games, Inc. (through DeLaine O. Foster and R. G. Foster): "Anti-Monopoly I," "Anti-Monopoly II," "Profit Farming," and "Purely Academic," board games, 1977-83 (1984.0873).

National Womans Party: 2 resolutions for an equal rights for women amendment in Maryland and Connecticut and a photograph of a mural of Margaret Brent appearing before the Elders from the Old State House in St. Mary's, Maryland (1981.0643).

National Women's Political Caucus (through Carol S. Silverthorn): 4 posters, 4 buttons, and a brochure (1982.0155).

The National Yeoman (F) (through Mrs. Irene M. Brown): 12 volumes of The Note Book, June 30, 1979 through December 31, 1983 (1984.0433).

Florence Neinken: 95 ancient mostly counterstamped coins (1981.1079).

Government of the Netherlands, Postal Department: 9 mint stamps of the Netherlands (1983.0140); 57 mint stamps and 4 souvenir sheets of the Netherlands (1984.0273).

State of New York, Department of Transportation, Engineering Research and Development Bureau (through William P. Chamberlin): 4 samples of natural cement (1984.0906).

Government of New Zealand, Post Office Philatelic Bureau: 18 mint stamps and a mint souvenir sheet of New Zealand (1979.0968); 70 mint stamps from New Zealand (1984.0275); (through G. W. Warner): 17 mint stamps of New Zealand (1983.0134).

Government of Niue, Niue Post Office, Philatelic Bureau: 14 souvenir sheets, 10 mint stamps, and 6 first day covers of Niue (1984.0274).

Joseph A. and Patricia Atkinson Norcross: 2 man's wool and fur coats and a woman's fox fur neckpiece, all late 19th or early 20th century (1980.0548).

Northwestern University (through L. A. Ellis): Seth Thomas tower clock movement, ca. 1879 (1984.0313).

Government of Norway, Postal Administration: 44 mint stamps and 15 first day covers of Norway (1984.0277).

Nova Game Designs, Inc. (through James Rosinus): "Lost Worlds - Fantasy Combat Book Game" and "Ace of Aces" book set games, 1983-84 (1984.0973).

Varue W. Oishei: woman's red wool "spiral" coat designed by Ronaldus Shamask, 1981 (1982.0096).

Edward C. Okerlund: Weston Master IV light meter with incident light attachment and case (1984.0664).

Origin Systems, Inc. (through Dave Albert): "Exodus-Ultima III" fantasy role-playing game and poster, 1983 (1984.1048).

George H. and Mary B. O'Sullivan: wooden fan back piano stool with an adjustable seat made by Holtzman & Son of Columbus, Ohio, late 19th century (1984.0761).

Lillian D. Owen: woman's beige linen-like dress designed by Vera Maxwell, 1959-63 (1982.0282).

Page Belting Company (through John W. Hilger): Watson & Stillman Co. hydraulic pressure pump (1984.0541).

Palmer College of Chiropractic (through W. B. Gehlsen and T. L. Tiemeier): group of 23 photographs, art works, and printed materials, 3 adjusting tables, 2 neurocalometers, a Derma therm-o-graph, and a copy of The Chiropractor's Adjuster (1980.0196).

Mildred R. Palmer: 4 silver cups and a silver sidesaddle stirrup from Bolivia, 3 South American earthenware figurines, 2 earthenware bull figurines from Peru, and a pair of stirrups, gourd and silver mate cup on stand with silver drinking straw, crown for religious figure, and a pin for a poncho from Chile, all late 19th to early 20th century (1984.0758).

Laura E. Patrick: violin made by Giovanni Grancino of Milan, Italy in 1696 (1984.0976).

Hope Cooper Patterson: wind-up walking toy fox terrier, ca. 1900 (1985.0310).

Mrs. Jefferson Patterson: 5 dresses, 3 shawls, 3 caps, 3 pairs of stockings, a riding combination, coat, piece of fabric, hat ribbon, fan, bracelet, brooch, pair of buckles, 2 curling irons, bag with curlers, perfume set, man's dressing case, trunk, and a suitcase all used by Mrs. Patterson and members of her family, 19th and 20th centuries (1980.0815); 11-piece set of amber Venetian glass, 1930s, 9-piece Lenox "Architects' Tea Set," 1933, 4 Wedgwood plates decorated with vignettes of Vassar College buildings, ca. 1929, 4 refined earthenware plates depicting scenes from the life of George Washington, ca. 1932, 3 18th-century German earthenware and pewter tankards, 19th-century porcelain platter made in Meissen, Germany, and a 20th-century Gladding, McBean & Co. ceramic tile (1982.0141); 8 examples of 18th-century Chinese export porcelain, 2 urns and 2 plates made by Samson & Co. of Paris, France, early 20th century, 2 glass bowls made by Salviati & Co. of Murano, Italy in the 1920s, and 2 red earthenware plates marked "1938" (1982.0805); 51 objects of business and personal use reflecting the diplomatic career of Jefferson Patterson and his wife (1983.0667).

Penguin Software (through Mark Glen): "The Coveted Mirror," "The Quest," and "Transylvania" computer games and "The Graphic Magician" and "The Complete Graphics System" information programs, 1982-84 (1984.0952).

Pennwalt Corporation, S. S. White Dental Health Products (through Kenneth D. Ferguson, Jr.): dental air abrasive unit used in cavity preparation (1982.0637).

Government of Penrhyn, Post Office: 3 mint stamps and a souvenir sheet of Penrhyn Island (1983.0210); 20 souvenir sheets, 11 mint stamps, and 6 first day covers of Penrhyn Island (1984.0280).

Cliff Petersen: sectional steam boiler patent model patented by Joseph Harrison, Jr. on October 4, 1859 (1984.0233).

Martin J. A. Petersilia: 25 paper documents from various political rallies, 1983 (1983.0541); 10 programs and information sheets about performances by Laurie James and 2 posters, a newspaper, and a handout about the Equal Rights Amendment and issues for Democrats (1983.0844); 24 paper items, 4

buttons, and a T-shirt from the 20th anniversary "March on Washington," August 27, 1983 (1984.0455).

Ann Lafferty Pfeiffer: 2 woman's dresses and a suit, 1900-10, a suit and 3-piece ensemble, 1925-30, and a suit from the 1960s (1984.0821).

Pharmaceutical Innovations, Inc. (through Gilbert Buchalter): "Stabilizer" cane and crutch tip invented by Gilbert Buchalter and manufactured by Sci-O-Tech Company (1983.0040).

Dr. Rilla M. Phillips: woman's collar decorated with white embroidery and scalloped edges, 1900-20 (1982.0290).

Rita McNamara Pleet: woman's coat designed by Donald Brooks and a matching tote bag designed by Judith Leiber, 1967 (1982.0457).

Frances D. and Karl F. Plitt: infant's belly band and pair of stockings, 1947 (1982.0280).

David S. F. and Peter R. Poggioli in memory of Raffaele P. Poggioli (through Mary F. Poggioli): 2 tan cotton shirts and a tan worsted necktie all worn by an Italian officer while in the United Nations service, ca. 1950 (1977.0985).

Penny Poirier: 3 panes of 1981 and 1982 Christmas seals (1983.0030).

Blanche and Harry Polachek: computer printout of the value of Pi to 100,000 decimal places done by D. Shanks and J. W. Wrench in New York on July 29, 1961 (1977.0192).

Polyclinic Medical Center, PMC Division of Neonatology (through Michael J. Paszek, M.D.): infant heart rate monitor made by Parks Electronics Laboratory of Beaverton, Oregon (1982.0508).

Harold I. Popp: shorthand stenograph machine, ca. 1882 (1982.0325).

Alice M. Porter: 2 woman's designer dresses by Adrian, 1950 and 1953 (1982.0100); 3 woman's hats from the 1950s (1982.0343); pair of black patent leather ankle strap platform shoes, 1944-49, and a pair of white leather stilleto heel pumps, 1959-64 (1984.0893).

Constance Potter: 8 bumper stickers, 8 pamphlets, a leaflet, paper flag, flyer, booklet, and a memo on various political subjects and a 12-piece information packet about the Susan B. Anthony dollar (1983.0847); woman's blue and yellow Nike brand running shoes, 1979-80 (1984.1086).

Rowa Wornall Powell: hat box with illustrations of Castle Garden, New York while it served as a concert hall, 1824-60 (1983.0383).

William S. Preston, Jr. in memory of William S. Preston: topaz brooch and an aquamarine brooch both worn by Nancy Pierce McNeil, 1820-50 (1984.0016).

John A. Prince: woman's brown floral print dress with cape, 1840s (1984.0577).

Princeton University Observatory (through Jeremiah P. Ostriker and John B. Rogerson, Jr.): Buff & Berger alt-azimuth, Pistor & Martins sextant, U.S. Navy bearing circle and bearing bar, Filar micrometer, double image micrometer, and a photometer (1983.0245).

Gordon Purdy: 25 porcelain "collector's plates" based on scenes from Norman Rockwell paintings, the movie The Wizard of Oz, the circus, and a photograph of Abraham Lincoln, 1970s and 1980s (1984.0497).

Railroaders Memorial Museum (through Robert L. Emerson): telephone/telegraph emergency line hook (1983.0755).

Thomas M. Raysor, Jr.: 3 man's neckties, 2 suits, 2 shirts, and a pair of trousers, 1960s (1984.0612).

Timothy J. Reese: "Spirit of '76/Presidential Inaugural/January 20, 1973, Washington, D.C." badge (1984.0235).

Dr. Henry Regensteiner in memory of his father Martin Regensteiner, M.D.: Siemen's diathermy device, surgical table-chair, surgical side table,

- lamp stand, and 2 heat-light boxes (313050).
- Dorita Resnick: woman's heavy beige brocade cape, 1880s (1984.0678).
- Lester W. Rice, Jr.: 23 issues of the Aurora General Advertiser of Philadelphia published by B. Franklin Bache, December 1795 to January 1796, an album of Civil War lithographs, and an embossed chromolithographed Valentine, 1880s (1984.0793).
- Oscar W. Richards, Ph.D.: Greyson Ruling test slide, a McArthur microscope with 3 glass slides distributed by the Open University of Great Britain as part of a biology course, and a "Superscope" toy microscope made by Learning Things, Inc. (1982.0336).
- Louis D. Richardson in memory of George W. Richardson: working half-inch model of a Cornish-type steam pumping engine and boiler built in 1934 by George W. Richardson that was used by the City of Providence, Rhode Island from 1873 until the early 20th century, blueprint and photostat drawing of the engine from which the model was built, Worthington revolution counter, ca. 1892, and a vacuum gauge (1983.0535).
- John F. Richey: pantographic engraving machine with 381 pattern pieces (1984.0245).
- Irwin J. and Jean L. Richland: 2 black dolls in their original costumes as a male chef and a female maid, ca. 1905 (1984.0631).
- Ralph D. Riva: Fahrenheit thermometer advertising weavers' supplies sold by Jacob Walder of Paterson, New Jersey, made by Perfection Thermometer Co. of New York, ca. 1880 (1985.0069).
- Franklin Robinson, M.D.: binocular ophthalmoscope and its transformer power supply (1983.0641).
- Ward M. Robinson: hooked slide fastener patent model, precursor of the zipper, invented by Whitcomb L. Judson, 1891 (1984.0536).
- Robert W. Root: 3 pike blades made for John Brown to be used in slave uprisings in West Virginia, ca. 1859 (1984.0760).
- George M. Rosenstein: Jenkins television scanner (1981.0597).
- J. William Rosenthal, M.D.: 47 ophthalmic objects (1981.0738); 36 eyeglasses and 26 lenses (1982.0170).
- Sonya J. Ross: 2 man's and a woman's T-shirts, 1978 (1984.0866).
- Leslie J. Ruben: woman's 3-piece suit designed by Margaret Godfrey and a Pant-her 2-piece pantsuit, both ca. 1976 (1982.0284).
- Etta B. Rubenstein: 2 buttons from the Presidential campaign of Eugene McCarthy, 1968 (1984.0445).
- C. Bard Rudder, Fred F. Rudder, M.D., and Fred F. Rudder, Jr.: direct blood transfusion device and a mechanical device for the administration of drugs and anesthesia both invented by Fred F. Rudder, M.D., ca. 1937 (1980.0653).
- Fath Davis Ruffins: 4 woman's dresses and a man's shirt, all with African "dashiki" print designs, 1969-72 (1984.0826).
- Margaret S. Rusk: 2 woman's blouses and a white dress with cutwork decorations, 1909-13 (1984.0845).
- Joy Safer: 2 woman's coats, one designed by Seymour Fox, the other by Originala, 1968-69 (1983.0743).
- Elizabeth K. Sanford: girl's brown leather purse, 1879-89 (1984.0030).
- Robert C. Sardino: 19 artifacts related to the career of Robert L. Sardino at the Crescent and Paramount Theaters of Syracuse, New York (1984.0789).
- Stephen O. Saxe: 32 composing sticks used to set printer's type, late 19th to early 20th century (1984.0979).
- Henry P. Scarupa: man's T-shirt commemorating the 1979 visit of Pope John Paul II to Washington, D.C. (1982.0728).

Catherine and Mary M. Schaefer: 6 "Vortex" metal ice cream plate holders (1984.0645); 3 pin cushions, 2 doilies, a letter dated 1923 stitched to one of the doilies, a pen wiper, and a hexagonal spool box (1984.0732).

A. Ch. and Nadia Schalk: woman's rubber bathing cap made by Kleinerts, 1955-65 (1983.0609).

Mary Ann Scherr: gold and sterling silver heart-sensor necklace with Trach attachment (1979.0488).

Gail D. Schlaifer: 7 color Polaroid photographs (1984.0747).

Karl E. Schmutzler: letter opener with a bear's claw attached, blade marked "Niagara Falls," 1900-10 (1984.1100).

Henrietta Schoepflin in honor of the Merle Hazzard Weible Family: woman's blue and white striped umbrella, 1750-1830 (1983.0037).

Schulmerich Carillons, Inc. (through Ronald O. Beach): 25 handbells developed and patented by Jacob Kunz and the first set manufactured by Schulmerich Carillons, Inc., 1962 (1984.0763).

Mrs. Valyre Potier See in memory of Mr. and Mrs. Raphael G. Potier: white damask towel commemorating the U.S. Centennial of 1876 (1984.0489).

Gloria L. and Ira Seiler, M.D.: 7 porcelain figures made by Cybis of Trenton, New Jersey in the 1960s (1984.1094).

Phillip Seitz: 2 phonograph records (1984.0775).

Wilma Scheer Selders: platinum and gold flute and an extra gold head joint with cases for each and a case cover for the flute, made by the William Haynes Co. of Boston, 1949 (1984.0924).

Carl A. Sferrazza: 5 pairs of man's trousers, 4 neckties, 2 sweaters, 2 shirts, a jacket, headband, and a pair of gloves, 1974-80 (1983.0819).

David H. Shayt: architect's rule made by Dexter Brothers of Boston, Massachusetts (1983.0237); thread box for thread made by the Willimantic Linen Company and a linens marker labeled Clark's Indelible Pencil, patented July 10, 1866 (1985.0155).

John W. Shuman IV: first portable inhalation gas anesthesiology machine built by Arthur E. Guedel, M.D., ca. 1930 (1983.0108).

Jane E. Shure: pair of girl's Calvin Klein blue denim jeans, 1980-81 (1982.0248); 10 pieces of woman's sports clothing, a stick pin, purse, and a man's jacket designed by Halston, 1970s (1983.0651); 18 items of infant's and children's clothing, 1979-84 (1985.0041).

Sierra On-Line, Inc. (through Larry Archer and Robert Schneider): "B. C.'s Quest for Tires," "Oil's Well," and "Time Zone" computer games, 1981-83 (1984.0972).

Philip Sills: 34 patterns and 33 pieces of clothing and accessories designed by Bonnie Cashin, 1954-77 (1979.1261).

Caroline T. Simmons: leather shirtcase and calling card case both with the initials of S. Fosdick Jones, 1910-30 (1982.0725).

Don R. Simmons: piece of Brinkerhoff ribbon wire (321659).

Nancy Brenner Sinnott: light blue knit infant's bathing trunks, 1981-82 (1983.0650).

Walter Byron Smalley (through Benjamin M. Leighton): 8 phonograph records (1983.0818).

Jean L. Smith: 13-piece goucho costume obtained by Lewis E. St. John in Argentina, ca. 1865 (1978.0345).

Stephen P. and Virginia B. Smith: patchwork throw with printed flags, anthems, and costumes of various nations, early 20th century (1980.0883).

Verna E. Smith: 15 documents and a high school ring recording the public school education of Ms. Smith on Long Island, New York, 1934-47 (1984.0647); wicker laundry basket, 1890s, and a doll's folding wooden

laundry rack, 1930s (1984.0650); 4 amber glass carpet protectors made by the Hazel-Atlas Glass Company of Wheeling, West Virginia in the 1930s (1984.0728); brass thimble contained in its original box, made in England (1984.0829).

Snyder Associates, Inc. (through Jean M. Snyder): mobile biomass gasifier fueled with wood chips, 1980-82 (1984.0596).

Mary Louise Snyder: silk pieced-work quilt, late 19th century (1984.1059).

Sturgis A. Sobin: Hough's Security Cash Recorder wooden cash register made in South Butler, New York, ca. 1893 (1983.0881).

Janet W. Solinger: woman's red crepe dress designed by John Kloss, 1968, red knit dress designed by Jeanne Lanvin, 1970, and a T-shirt decorated with a sequined parrot designed by Jones New York, 1972-73 (1984.0188); 2 woman's dresses designed by Albert Nipon, a dress by Calvin Klein, blouse by Koo van den Akker, and a skirt by Jones New York, 1970s (1984.1036).

Virginia M. Solt: woman's white shirtwaist, ca. 1905 (1983.0849).

Morris Speizman: 79 examples of men's, women's, and children's hosiery showing 20th-century hosiery knitting machine techniques (1985.0032).

Philip D. Spiess II: powder bag used to whiten buck shoes, made by Bunny Products Co., Inc. of Indianapolis, Indiana, 1950-59 (1982.0097).

St. Martin's-In-The-Field (through Rev. Daniel W. Eckman, Jr.): child's T-shirt designed by junior counselors and worn by all children attending the church's Christian Summer Day Camp, 1982 (1982.0726).

Benjamin, Harvey G., and Norman Stack: 149 silver and bronze Middle Eastern and Indian coins (1984.0147).

Helen M. Stackhouse: 7 pieces of children's clothing, 1911-20 (1982.0245).

Spiros G. Stamelos, M.D.: 7 silver coins issued in ancient Judaea with portraits of Ptolemy I (1979.1247).

Stanford University School of Medicine, Department of Medical Microbiology (through Stanley Falkon and Caroline Nardini): 3 microtomes with 22 related parts (1981.0812).

Mrs. Robert B. Stephens: length of Spitalfields brocaded silk and a silk-embroidered picture, both 18th century, a Leonard family record sampler dated 1827, a sampler memorializing Guni Goodale dated 1832, and a Skillin family genealogy sampler dated 1835 (1983.0617); 6 early 20th-century Amish quilts from Pennsylvania, Indiana, and Ohio (1985.0029).

Nancy E. Stewart: woman's mourning ring of woven hair mounted in gold dedicated to "J.D." who died on April 20, 1828 at age 74 (1984.0736).

Elizabeth D. Stone: woman's slip from the wedding trousseau of Elizabeth Gamble married July 13, 1912 (1983.0717); boy's cane or riding crop with horse head figure at top, 1872-75 (1984.0464).

Dorothea M. Strang: 2 woman's chemises, one of pale yellow satin with light brown lace and the other of pink crepe with tan lace, 1920-30 (1984.0956).

Dr. Joseph G. Strawitz: violin made by Robert E. Weber of Milwaukee, Wisconsin, ca. 1930 (1984.1133).

Cornelia Pickens Suhler: embroidered canvas-work rug made by Madame Nikolay Rimsky-Korsakoff (1984.0181).

Janice E. Summons: 11 examples of woman's clothing from the 1970s (1982.0747).

Mrs. Wm. Sutherland: woman's black silk satin jacket, 1903-08 (1983.0093).

Government of Sweden, The Swedish Post Office, Stamps and Philatelic Service: 1,345 mint stamps, 189 first day covers, 30 maximum cards, 15 souvenir sheets, 12 aerogrammes, and 6 post cards of Sweden (1984.0278).

Syntex Dental Products, Inc., Den-Tal-Ez Manufacturing Co. (through Melvin

D. Booth and John L. Naughton): the first reclining dental chair invented and built by John L. Naughton of Des Moines, Iowa in 1958 and the 100,000th reclining dental chair built by Den-Tal-Ez Manufacturing Co. in Bay Minette, Alabama, 1981 (1982.0465).

Syracuse University, S. I. Newhouse School of Public Communications (through John James Brucha): a pantographic matrix engraving machine used by Fredric William Goudy, ca. 1920 (1984.0737).

Dr. Hans Syz: 2 coffee pots with covers, 2 tea caddies with covers, 2 pairs of cups and saucers, 2 pairs of tea bowls and saucers, sugar box with cover, sugar bowl with cover, tea bowl, and a plate, all 18th century Meissen porcelain (1982.0796); 74 pieces of 18th-century Meissen porcelain (1983.0565); fragment of a porcelain tureen made in Meissen, Germany, 1730-35 (1983.0752); 46 pieces of 18th-century Meissen porcelain (1984.1140).

Arthur E. Tarantino: Dalton adding, listing, and calculating machine with base and stand, 1916-22 (1984.0492).

Vernon E. Tate: 2 Seidell plastic single-eye viewers for microphotographs (1977.0874).

Taylor Backes, Inc.: blown colorless studio glass vase decorated by sandblasting into grid-like patterns, made by William Dexter in 1979 (1983.0255).

Jack Howard Taylor, Ph.D.: color photograph of the spectrum by Gabriel Jonas Lippman, ca. 1908, KBr crystal grown by Dr. John Strong in 1929, and an astronomical mirror made by Prof. Philip S. Fogg in 1931 and coated with evaporated aluminum by Dr. Strong in 1932 (1985.0521).

J. H. Taylor, M.D. and Karen C. Taylor: mid-19th-century Brussels applique lace shawl (1984.1120).

Mary Kathleen Taylor: woman's quilted grey robe, 1867-85 (1982.0582).

Colonel Harry D. Temple: ROTC insignia for Fork Union Military Academy designed by Colonel Temple (310957).

Eleanor Lee Templeman: 4 cartes de visite portraits of Robert E. Lee, General Beauregard, Mrs. Jefferson Davis, and Jefferson Davis in cartoon style, Civil War period (1984.0908).

Andrew C. Teter: 3 pamphlets about The Rainbow Nation, 2 rainbow flags of the International Co-operative Alliance, The Market Place newspaper, and a button from the "March on Washington," 1963 (1983.0592).

Jan and R. S. Thomas: woman's fan commemorating the 1876 Centennial Exposition in Philadelphia (1983.0094).

Stephen M. Tiber: 3 man's jackets, 3 neckties, and a 3-piece suit, 1973-75 (1983.0713).

Marilee Tillstrom: box labeled "E. Burnham Importer of Hair Goods," a shopping bag, 1975, and a Stanley pen labeled "Jerry Silverman," 1960-80 (1982.0435); 9 items of woman's accessories, pair of man's shoes with box, and a girl's overalls, blouse, and shoes, 20th century (1984.1089).

Timex Computer Corporation (through Daniel D. Ross): Timex Sinclair 1000 personal computer, ca. 1982 (1983.0289).

Marcelle Lapow Toor: 20 black and white beach scene photographs by Harry Lapow (1984.0658).

Mary S. Torbik: woman's black imitation sealskin cloth coat, 1919-24 (1983.0613).

Naomi W. Towner: 3 Jacquard woven silk portraits of Janet Gaynor and Greta Garbo together, Bette Compson, and Charles Lindbergh, 1930s (1985.0160).

Jeanette Residor Traten: porcelain plate in "Washington-Wakefield" pattern made by Lenox China, Inc., ca. 1930, reproduced from 18th-century

fragments excavated at the George Washington birthplace estate of Wakefield (1982.0145).

TSR, Inc. (through Dieter Sturm): "Dungeons & Dragons" fantasy role-playing game, 1983 (1984.1031).

Hobert W. and Virginia A. Turner: concert roller organ with 34 rolls, late 19th century, C. F. Martin guitar, 1913, and a Gibson mandolin, early 20th century (1984.0843).

Lillian Turner: woman's silver fox jacket, 1940 (1983.0719).

Turrell Uleman: chloride of silver battery set in a wooden case, ca. 1910 (1983.0747).

The Ungame Company (through Lew Herndon): "Credit Ability," "Social Security," and "The Ungame" board games, 1975-80 (1984.0962).

Government of the United Arab Emirates, Ministry of Communications, General Postal Administration, Philatelic Bureau: 2 mint stamps of the United Arab Emirates (1983.0057); The Post Office, Postal Headquarters, Philatelic Section: 53 mint stamps of the United Arab Emirates (1984.0268).

United Methodist Homes of New Jersey, Pitman Manor (through Carl Baker): examining table, electrical device, trash container, and a Hamilton suction apparatus (1980.0981).

United Nations, Postal Administration: 2,754 mint stamps, 16 souvenir sheets, 8 post cards, and 4 air letter sheets of the United Nations (1984.0279).

Universal Electric Company (through Gary M. Kruzman): Bullard Mult-Au-Matic 6-station boring machine used from 1919-82 and 2 cast iron workpieces (1984.0380).

Unknown: Sharp model EL-8 calculator with adapter (1982.0656); 2 Japanese first day covers (1983.0528); girl's hat, boy's cap, and a pair of woman's sunglasses, 1983-84 (1984.0329).

UOP, Inc. (through John David Culton): watchman's time clock made by E. Howard and Company of Boston (1982.0598); (through John D. Culton and David O. Stephens): architect's level, pocket railroad compass with alidade attachment, surveyor's transit, and a set of mining lamps all made by W. & L. E. Gurley of Troy, New York, 2 tripod caps made by C. L. Berger & Sons, a Lufkin Rule Co. woven tape, a Chicago Co. steel tape, and an unmarked ball joint and socket (1982.0701); (through R. M. Baratta): 6-piece fire alarm system made by the Gamewell Fire Alarm Telegraph Co., ca. 1880, 2 Leeds and Northrup potentiometers, ca. 1930, a Ball generator, ca. 1884, Cooper Hewitt mercury-vapor light fixture, ca. 1907, General Electric transformer, and a police call box (1983.0310).

U.S.. American Revolution Bicentennial Administration: 6 pewter and 5 silver plaquettes from "The Bicentennial History of the United States Ingot Series" issued by the Franklin Mint (1983.0681).

U.S. Department of Defense, Department of the Army, Institute of Heraldry (through Jacob D. Tomlinson): 42 distinctive unit insignia and 12 shoulder sleeve insignia (1983.0704); (through Margaret M. Moore): 33 distinctive unit insignia crests (1984.0330); The US Army Band (Pershing's Own), ANTUSAB (through Col. Eugene W. Allen): pair of U.S. Army Band insignia crests (1982.0722); (through SP6 Michael R. Calloway): pair of women's unit crests of the U.S. Army Band and a brass hat badge marked "Pershing's Own" (1983.0359).

U.S. Department of Health and Human Services, Public Health Service, National Institutes of Health, National Institutes on Arthritis, Diabetes, Digestive, and Kidney Diseases, Laboratories of Chemistry and

- Bioorganic Chemistry (through Cyrus R. Creveling, Ph.D.): 61 German hydrometers (1984.0046).
- U.S. Department of the Interior, Fish and Wildlife Service (through Peter A. Anastasi): 5 stamp panes and 5 die proofs for Migratory Bird Hunting and Conservation federal revenue stamps, 1978-83 seasons (1983.0212); pane of 30 stamps and the die proof for the 1983-84 season of Migratory Bird Hunting and Conservation federal revenue stamps (1983.0635).
- U.S. Department of Transportation, Federal Railroad Administration, Transportation Test Center (through Wade D. Dorland): RS-1 road switcher diesel locomotive built by the American Locomotive Company in 1942 (1983.0505).
- U.S. Department of the Treasury, U.S. Mint (through Donna Pope): 26 coins issued by the U.S. Mint, 1980-81 (1983.0678); 2 5-piece sets of 1983 U.S. proof coins (1983.0679).
- U.S. Federal Maritime Commission: Kelvin-White folding parallel rule used on ships to read charts (1984.1002).
- U.S. Panama Canal Commission (through F. A. Cotton): 7 pieces of Minton china, 6 pieces of silverware, and a crystal goblet and wine glass used as official service by the Panama Canal Government (1984.0127); General Services Bureau (through Col. Robert D. Banning): 36,849 stamps, covers, postal stationery, proofs, models, dies, art, designs, sketches, and philatelic material illustrating the postal history of the Panama Canal Zone (1983.0125).
- U.S. Postal Service (through William F. Bolger): philatelic cover carried aboard the Space Shuttle Challenger, August 30 - September 5, 1983 (1983.0527); Customer Service Department (through Jack Williams): pane of 50 stamps, 3 American Society of Civil Engineers first day of issue cacheted covers, and a program celebrating the centennial of the opening of the Brooklyn Bridge, May 24, 1983 (1983.0556); Office of International Postal Affairs, International Relations Branch (through Michael J. Regan): 5,392 stamps, 96 souvenir sheets, 11 mini sheets, 10 presentation folders, 2 panes, and 2 first day covers from the People's Republic of China, Guernsey, India, Japan, Spain, Spanish Andorra, and Spanish Sahara (1984.0282); Stamp Management Branch, Stamps Division (through James R. Williams): 3,750 mint stamps, 108 souvenir pages, 42 commemorative panels, 36 souvenir cards, 24 stamped envelopes, 15 post cards, 3 air letter sheets, and a proof sheet (1983.0138); 42 commemorative panels of U.S. stamps (1984.0281).
- U.S. Veterans Administration Medical Center 622 (through Georgia Simmons): deep body rectal thermometer in wooden case, ca. 1945 (1982.0217).
- Mrs. Forest E. Vail: leather ration book container with meat tokens, gas coupons, ration books, and an application form, WW II (1984.0215).
- Pablo E. Vasquez: 2 pairs of boots, a calf and goatskin boot, an alligator leather boot, and a partially made boot in 2 fragments, all made by Mr. Vasquez in 1962 and 1983 (1983.0721).
- Ruth F. Venable: blue bisque porcelain egg and stand hand-painted with enamel and gilt by Mrs. Venable in 1974 (1984.0722).
- University of Virginia, Alderman Library, Manuscript Department (through Michael Plunkett): 3 towels and a tablecloth of woven linen and a ball of homespun linen yarn all made by women of the Pitman family of Shenandoah County, Virginia (1984.1055); Chemical Engineering Department (through Dolly Prenzel and J. D. Sims): 10 temperature recording and controlling devices (1982.0089).
- Vital Signs, Inc. (through T. I. Wall): Downs CPAP clear soft cushion face

- mask, equalizer headstrap with constant force cartridges, and a PEEP valve with adapter all used in the administration of anesthesia (1983.0740).
- Robert M. Vogel: photograph of the Brooklyn Bridge when work on the promenade deck framing was started in the summer of 1882 (1984.0771); Duval Hunter's Catalogue of Oleograph Publications for the season of 1873-74 (1984.0774).
- Maria von Matthiessen: 13 photographic portraits (1984.0666).
- Voter Education Project, Inc. (through Sherrill Marcus): 5 posters that encourage people to register and vote (1980.0151).
- Mrs. Elizabeth F. Vough: pink and white art glass kerosene lamp made by Mount Washington Glass Company, 1886-94, converted to electricity after 1902 by Hazel-Atlas Glass Company (1981.1080).
- Janet Wallach: 12 examples of man's and woman's clothing, 1970-80 (1982.0449); 3 pairs of woman's panties by Jockey and a pair of man's shorts by Calvin Klein, 1984 (1984.0468).
- Gretchen Hoffman Waltman: man's shirt cuff and a woman's handkerchief, both souvenirs of the 1876 Centennial Exposition in Philadelphia (1984.0033).
- Margery T. Ware: 6 infant's shirts, 1854-56, 2 man's vests, 1852, a man's handkerchief, and a spool of J. & P. Coats thread (1984.0336).
- Washington Adventist Hospital, Department of Surgery (through Minota Stevens): Hoffman apparatus in metal case (1981.0246).
- Waterbury Companies, Inc. (through David S. Ebersole): 417 19th- and 20th-century button dies made by the Scovill Manufacturing Company of Waterbury, Connecticut and 9 drawers designed to hold the dies (1983.0422); 35 dies for the manufacture of buttons for the U.S. Geological Survey, U.S. Forest Service, U.S. Fish Commission, and U.S. Customs (1983.0536); 17 dies for making buttons for the U.S. Post Office Department (1984.0574).
- Joan Pearson Watkins: black fur muff, ca. 1915, and 3 pairs of woman's sunglasses and a mink hat, 1960-65 (1982.0111); gray and white herringbone twill raincoat worn by Lura Woodside Watkins, 1905-10 (1983.0252); printed textile from eastern India (1983.0619); pair of woman's unbleached canvas espadrille shoes made by Grasshoppers, 1977 (1983.0798); woman's blue leather loafer shoes by Pappagallo, 1973-78 (1984.0234).
- Stanley E. Weaver: bright pink crepe dress designed by Cristobal Balenciaga in 1965 and a red knit skirt designed by Norman Norell in 1968 (1983.0339); in memory of Norman Norell: woman's black alligator shoes, 1968 (1983.0199).
- Lucy H. Webb: gas refrigerator made by Servel, Inc., 1926-56, and a Rubbermaid white plastic container, post-WW II (1984.0950).
- Ben H. Weil: collection of 19 volumes of mint postage stamps, envelopes, and souvenir sheets relating to the United Nations and its agencies and programs and a complete collection of used United Nations stamps and souvenir cards (323592).
- Rosa Weinstein: suction carpet sweeper made by Reeves Vacuum Cleaner Co. of Milford, Connecticut, 1900-10 (1984.0994).
- Sharlene Weldon: woman's bibbed apron imprinted with a decorative pattern for needlepoint work, 1983 (1984.0187).
- Joseph Whitehill: horizontal single cylinder steam mill engine model (1984.0412).
- Betty V. Williams: automatic embroidery attachment for a sewing machine and a sheet of instructions for its use (1983.0621).

Verna Forbes Willson in memory of John Sherman Peyton: tintype of people listening to an electronic recording device, ca. 1890 (1981.0317).

Dean S. Wilson: man's 3-piece navy blue suit and a pair of brown loafer shoes, both made by Brooks Brothers, 1974-76 (1984.0502).

C. Norman Witte, M.D.: telephone timer (1983.0746).

Robert J. Witzel: 13 studio portrait tintype photographs (1985.0227).

Laurance Wolfe: tinted tintype photograph (1983.0795).

Gordon K. and Margreta J. Woods: transit and tripod used to survey irrigation canals in Montana in the late 19th century made by W. & L. E. Gurley of Troy, New York (1984.0118).

Helena E. Wright: chromolithograph of a faith, hope, and charity theme published by True & Co. of Augusta, Maine, 1878 (1984.0773).

Adele P. Yoka: 5-inch length of rope which was part of the ring for the Dempsey-Tunney championship heavyweight boxing match held September 23, 1926; in Philadelphia (1984.0634).

Betty M. Zakarian: woman's pale pink silk satin and fur evening coat, ca. 1925 (1983.0652).

Charlotte and David E. Zeitlin: 2 covered coffeepots, a chocolate pot, mug, and a figure of a woman standing, all examples of 18th-century English creamware (1984.0378); 6 examples of 18th-century English earthenware (1984.1119).

David E. Zeitlin: 2 tea caddies with relief-molded decorations designed by Daniel Greatbatch and made by Whieldon-Wedgwood in England, 1755-65, an English creamware teapot and tea caddy with polychrome floral decorations, 1770-90, and a late 18th-century English plain creamware pitcher (1983.0820).

Mary Zellick: tablecloth with matching napkin, pillowcase, and a bedspread, all made of linen (1978.0349).

Charles H. Zierdt, Ph.D.: 76 phonograph records (1984.0569).

Max M-K Zung, M.D.: anesthesia machine and 14 pieces of related equipment, ca. 1950 (1983.0209).

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Ellen Doak Winslow: 57 handmade decorations for the Christmas tree
"French Ribbon Tree."

Friends of Counted Embroidery, New Jersey, Colorado, and Connecticut,
396 decorations for the Christmas tree "Counted Embroidery."

Mary B. Martin: 193 handmade decorations for the Christmas tree
"American Colonial Designs."

Hilda Geuther: 131 handmade decorations for the Christmas tree
"Shell Tree."

New Mexico Extension Homemakers Council: 200 decorations for the
Christmas tree "New Mexico."

Robert J. Kieliger: 206 handmade decorations for the Christmas tree
"Teddy Bear Tree."

Mary B. Licari: 96 handmade decorations for the Christmas tree "One
Family's Tradition."

Hazel Logue and Deborah Logue Price: 358 handmade decorations for the
Christmas tree "Family Craft Tree."

Ikebana International, Washington, D.C. Chapter No. 1: 376 handmade
decorations for the Christmas tree "Japanese Origami."

The Genesee Valley Fiber Guild of Flint, Michigan: 321 handmade
decorations for the Christmas tree "Weaver's Tree."

Ralph and Tinka Brinton, and their children Heather, Wendie, Alicia,
and Ralph: 193 handmade decorations for the Christmas tree "Family
Heritage."

Highland County Senior Citizens Center, Hillsboro, Ohio, 341 handmade
decorations for the Christmas tree "Appalachian Tree."

Donor to the Library Collection

Ikebana International, Washington, D.C. Chapter No. 1: A collection of
19 hardbound books spanning 30 years of instruction in the Art of
Ikebana floral design. Also, 59 issues of Ikebana International,
1959-1983.

Donors to the Wire Frame Collection

Bruce Buntin: 1 wire floral frame in the form of a lyre.

Robert S. Judd: 1 wire floral frame in the form of a chariot.

Donors to the Garden Furnishings Collection

Jeanne P. Medici: 10 cast iron fence finials, 1 white metal angel
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Stillman Berry
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Colonial Waterbird Group: records of the Group
Entomological Society of Washington: records of the
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International Union of Directors of Zoological
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Museum Education Roundtable: records of the Roundtable

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- Dr. J. Lawrence Angel: Bibliography of Kuru.
- Dan Appleman: The Chemistry of Imperfect Crystals, vol. 1, 2nd rev. ed.
- Hal Banks: Natural Regions of the United States and Canada.
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 Mr. and Mrs. Richard J. Wertheimer
 Capt. J. H. Wesson
 Mr. James S. West
 Miss Hilda Wexler
 Mr. and Mrs. William R. Wharton
 Ms. Annette P. Whatley
 Ms. Adelia C. Wheeler
 Mr. George Y. Wheeler, II
 Mr. and Mrs. Richard H. Wherley
 Dr. John P. Whiteley
 Mrs. Catherine L. Whitsitt
 Mr. and Mrs. G. Allan Whittaker
 Mr. James H. Wiborg
 Mr. Richard J. Wicklund
 Mr. and Mrs. J. Burkner Wilkinson
 Dr. and Mrs. Robert S. Wilkinson, Jr.
 Mr. and Mrs. Norman C. Willcox
 Mr. Robert A. Williams
 Mrs. Dorothy R. Williams
 Dr. and Mrs. James C. Williams
 Mr. and Mrs. Kenneth R. H. Williams, Jr.
 Mr. J. Reid Williamson
 Maj. Gen. and Mrs. Ellis W. Williamson
 Ms. Jane Wilner
 Mr. Hugh H. Wilson
 Mr. and Mrs. Kendall W. Wilson
 Mr. Henry T. Wilson
 Captain Lucille A. Wilson
 Mr. and Mrs. George B. Wilson, III
 Dr. and Mrs. Ralph Wilson, Jr.
 Miss Harriet L. Wilt
 Mr. Robert Windsor
 Mr. and Mrs. Jack Winter
 Dr. and Mrs. James R. Wirth

Ms. Louise Woerner
Mr. and Mrs. Payson Wolff
Ms. Audrey J. Wolfinger
Dr. and Mrs. Allan Y. Wolins
Mrs. Robert M. Wolterstorff
Mr. David L. Wood
Mr. Harry E. Wood
Mr. William S. Woods
Mrs. Jack A. Wright
Mrs. Mary E. Wright
Mr. C. H. Wright
Ms. Judith C. Wright
Mr. and Mrs. Nelson Wurz
Mr. Frederick B. Wynn
Mr. and Mrs. Philip D. Yaney
Mr. Paul M. Yoder
Mr. Gregory B. Young
Mr. and Mrs. Daniel K. Young, Jr.
Dr. Berton Zbar
Mr. and Mrs. Edwin Zimmerman
Mr. and Mrs. Joseph M. Zorc
Mr. and Mrs. Barry Zorthian

Appendix 10

Visitors to Smithsonian Institution Museums in Fiscal Year 1985

MONTH	SMITHSONIAN INSTITUTION BUILDING	ARTS AND INDUSTRIES BUILDING	NATURAL HISTORY BUILDING	AIR AND SPACE BUILDING	FREER GALLERY OF ART	NATIONAL MUSEUM OF AMERICAN HISTORY	TOTALS
October 1984	75,693	86,438	406,963	771,587	33,002	360,593	1,734,276
November	53,090	71,983	382,291	541,113	30,262	260,929	1,339,668
December	45,850	72,398	236,729	382,052	19,924	262,419	1,019,372
January, 1985	29,062	43,873	196,975	327,760	14,126	203,836	815,632
February	33,930	48,377	239,160	292,414	12,979	182,071	808,931
March	66,379	80,745	436,670	564,480	20,653	346,143	1,515,070
April	122,120	121,459	714,063	1,073,423	27,753	639,770	2,698,588
May	111,727	108,094	662,252	1,006,722	25,100	550,410	2,464,305
June	128,428	110,701	737,910	1,098,440	27,208	557,320	2,660,007
July	161,046	121,258	828,523	1,381,746	32,675	668,813	3,194,061
August	141,927	118,158	606,707	1,184,218	28,201	591,135	2,670,346
September	76,895	64,605	243,438	536,416	19,493	235,044	1,175,895
TOTALS	1,046,151	1,048,089	5,691,681	9,160,371	291,376	4,858,483	22,096,151

MONTH	AMERICAN ART & PORTRAIT GALLERY	RENWICK GALLERY	HIRSHHORN GALLERY	ANACOSTIA NEIGHBORHOOD MUSEUM	COOPER- HEWITT MUSEUM	MUSEUM OF AFRICAN ART	TOTALS
October 1984	31,830	14,302	92,911	815	10,713	2,788	153,359
November	28,331	16,177	84,817	2,039	10,149	3,682	145,195
December	24,334	11,461	67,609	1,641	9,066	3,581	117,692
January, 1985	23,821	9,590	38,657	1,878	6,983	2,806	83,735
February	37,981	8,565	42,919	3,664	9,364	3,758	106,251
March	38,871	9,702	77,352	2,382	10,046	2,135	140,488
April	36,451	9,634	115,817	2,519	8,501	6,419	179,341
May	32,263	10,197	105,443	2,091	5,973	5,578	161,545
June	30,442	9,332	112,575	2,854	16,845	3,066	175,114
July	30,209	9,487	131,450		9,158	2,490	182,794
August	32,773	8,849	122,167		9,263	4,250	177,302
September	25,799	7,388	67,333	1,720	6,381	3,108	111,729
TOTALS	373,105	124,684	1,059,050	21,693	112,442	43,661	1,734,545

Grand Total

23,830,696

NOTE: Totals for each museum reflect the number of individual visitors to that museum. Since many visitors include more than one museum on their itinerary, or go to various museums on several consecutive days, they are counted several times. The grand total, therefore, represents the aggregate of museum visitor counts, and is higher than the actual number of individual visitors to the Smithsonian Institution. / Not reflected in the above tabulation are an estimated 3,500,000 visitors to the NATIONAL ZOOLOGICAL PARK in fiscal year 1985. The very nature of the Park, with its indoor and outdoor exhibits and its several vehicular and pedestrian entrances, makes it impossible to obtain exact visitor statistics. To overcome this difficulty, the Zoo has developed a reliable sampling system which was used to determine the fiscal year 1985 estimate of 3,500,000 visitors.

SMITHSONIAN INSTITUTION LIBRARIES



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